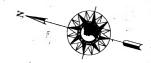
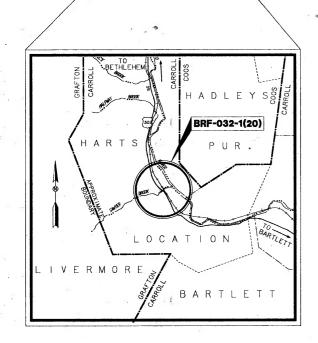
THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED FEDERAL AID PRIMARY BRIDGE REPLACEMENT PROJECT

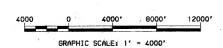
BRF-032-1 (20)
N.H. PROJECT NO. P-4366
N.H. ROUTE 302

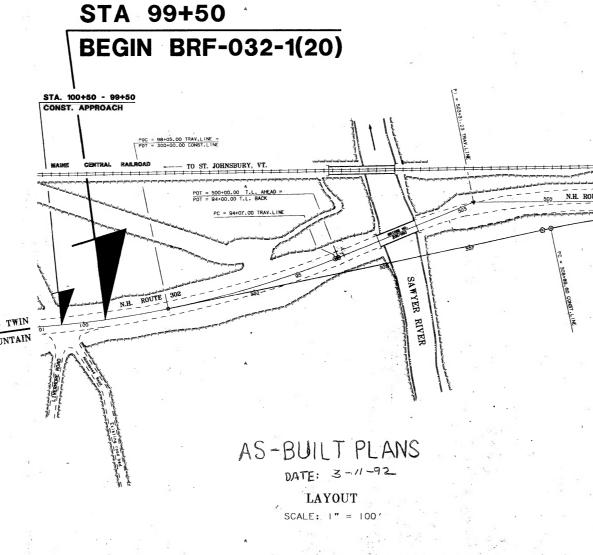


AVERAGE DAILY TRAFFIC 19.90 AVERAGE DAILY TRAFFIC 20.10 PERCENT OF TRUCKS DESIGN SPEED LENGTH OF PROJECT



LOCATION MAP





STA 317+50 END BRF-032-1(20)

STA. 317+50 - 318+50

CONST. APPROACH

TO PORTLAND.

MAINE CENTRAL RAILROAD

TO PORTLAND.

Maine Central Railroad

To Portland.

STA. 317+50 - 318+50

CONST. APPROACH

TO PORTLAND.

AND THE CENTRAL RAILROAD

TO PORTLAND.

TO PORTLAND.

THE CENTRAL RAILROAD

THE CENTRAL RAILROAD

TO PORTLAND.

THE CENTRAL RAILROAD

THE

NHDOT
RECOMMENDED & FOR APPROVAL TO

DIRECTOR OF PROJECT DEVELOPMENT

U. S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

PPROVED:

DERAL PROJECT NO. STATE PROJECT NO. SHEET NO. OTA 10 P-4366 L 4

TOWN OF HARTS LOCATION

COUNTY OF CARROLL

INDEX OF SHEETS SHEET NO DESCRIPTION TITLE PAGE INDEX OF SHEETS & GENERAL NOTES INDEX OF STANDARD SHEETS & CONSTRUCTION SIGN STANDARD SHEETS STANDARD SYMBOLS TYPICAL SECTIONS OF IMPROVEMENT 586 SUMMARY OF QUANTITIES (ROADWAY) SPECIAL USE PLANS: EROSION CONTROL DETAILS SPECIAL GUARDRAIL DETAILS 9-11 12 PORTABLE CONCRETE BARRIER BRIDGE PLANS: 13-32 BRIDGE OVER THE SAWYER RIVER ROADWAY PLANS: 338 34 GENERAL PLANS 35 PROFILE U.S. ROUTE 302 36837 PRAINAGE, GUARDRAIL, CURBING, PAVEMENT LAYOUT, AND PAVEMENT MARKING PLANS CROSS-SECTIONS: 38 - 45 U.S. ROUTE 302 THE FOLLOWING GENERAL NOTES WILL BE USED ON THIS PROJECT:

200567800 (400000003

GENERAL NOTES

- THIS PROJECT TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS DATED 1983 AND SUPPLEMENTAL SPECIFICATIONS, CURRENT STANDARD SHEETS AND SPECIAL PROVISIONS ATTACHED TO THE PROPOSAL.
- ADJUSTING, ALTERING OR RELOCATING THE PROPERTY OF ANY PUBLIC UTILITY SHALL BE DONE BY THE OWNER, NOT A PART OF THIS CONTRACT. THE CONTRACTOR SHALL COOPERATE WITH THE OWNER IN THE PERFORMANCE OF THE WORK.
- 3 HIGH TENSION OVERHEAD TRANSMISSION LINES ARE LOCATED THROUGHOUT THE PROJECT WITH CROSSINGS AT VARIOUS LOCATIONS AND RUNNING ALONG THE ROAD THROUGHOUT THE PROJECT EVEN ON REGULAR POLES. THE CONTRACTOR IS ADVISED THAT EXTREME CAUTION WILL BE REQUIRED IN THE OPERATION OF EQUIPMENT. ESPECIALLY CRANES AND PILE DRIVING EQUIPMENT.
- 4 ALL EXISTING UTILITY POLES WILL BE RELOCATED BY OTHERS TO A MINIMUM OF ___ FEET FROM THE ROADWAY CENTERLINE.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE EXACT LOCATION SHOULD BE ESTABLISHED IN THE FIELD BY THE UTILITY COMPANY PRIOR TO ANY EXCAVATION OR POST DRIVING
- 6 DRIVES SHALL BE REPLACED IN KIND EXCEPT AT THOSE LOCATIONS WHERE DRIVES HAVE BEEN STEEPENED TO THE EXTENT THAT A MORE STABLE SURFACE IS WARRANTED. ALL GRAVEL DRIVES TO RESIDENCES AND OTHER GRAVEL DRIVES WHEN ORDERED, SHALL BE CONSTRUCTED WITH A PAVED APRON ADJACENT TO THE SHOULDER.
- 7 TOPSOIL SHALL BE REMOVED FOR ITS TOTAL DEPTH WITHIN THE LIMITS OF THE SLOPE LINES. UNLESS OTHERWISE DIRECTED, THE TOPSOIL SHALL BE STOCKPILED AND USED IN ITS ENTIRETY UNDER SECTION 641 LOAM AND/OR SECTION 647 HUMUS.
- 8 UNSUITABLE MATERIAL, ROOTS AND STUMPS WITHIN THE LIMITS OF THE ROAD BED, SHALL BE REMOVED AS ORDERED.
- 9) MUCK SHALL BE REMOVED BY EXCAVATION UNDER ITEM (203.1), (203.4), OR BY DISPLACEMENT, AS ORDERED.
- (IO) THE SUBGRADE SHALL BE SCARIFIED TO ASSURE THAT ALL BOULDERS AND COBBLES OVER 6 INCHES ARE REMOVED WITHIN 36 INCHES OF FINISHED GRADE: THIS WORK AND RECOMPACTION OF THE SUBGRADE WILL BE PAID UNDER ITEM 212.1 SCARIFYING.
- (II) EXISTING LEDGE AND BOULDER OUTCROPS ARE TO BE REMOVED AND/OR BERMED AS SHOWN OR AS ORDERED.
- HUMUS SHALL BE APPLIED TO ALL EARTH SLOPES NOT LOAMED TO A NOMINAL DEPTH OF 3-1/2 INCHES (471 CY/ACRE), UNLESS OTHERWISE ORDERED.
- (13) ALL NEW EARTH SLOPES SHALL BE MULCHED.
- 14) THE SLOPES AROUND EXTENDED PIPES SHALL BE FLATTENED AND GRADED AS SHOWN OR ORDERED.
- ASPHALT SURFACE TREATMENT INCLUDING SAND COVER SHALL BE APPLIED TO THE TRAVELED WAY AS A PRIME COAT AT THE RATE OF 0.50 GALLONS PER SQUARE YARD IN ONE APPLICATION, OR AS ORDERED.
- ASPHALT SURFACE TREATMENT INCLUDING SAND COVER SHALL BE APPLIED TO THE SHOULDER AS A PRIME COAT AT THE RATE OF 0.50 GALLONS PER SQUARE YARD IN ONE APPLICATION, OR AS ORDERED.

- THE PAVEMENT OVERLAY SHALL BE WARPED TO MATCH EXISTING CATCH BASINS, DROP INLETS, AND/OR SIMILAR STRUCTURES.
- (IB) EXISTING CONCRETE PAVEMENT REMOVAL WILL BE PAID UNDER ITEM 203.2 ROCK EXCAVATION (___C.Y./IOO L.F.). THE BITUMINOUS PAVEMENT ABOVE THE CONCRETE WILL NOT BE PAID UNDER ITEM 203.2.
- 19) RESTORE SUPERELEVATION ON EXISTING CURVES BY THE USE OF A PAVEMENT LEVELING COURSE AS INDICATED ON PLANS OR AS ORDERED.
- 20) ALL CRACKS IN THE PAVEMENT MEASURING 1/4 INCH OR MORE IN WIDTH, OR AS ORDERED,
 SHALL BE TREATED WITH CRACK FILLER WITHIN THE LIMITS DESIGNATED ON THE PLANS.
- 21) ADJUSTMENT OF CATCH BASINS AND DROP INLETS OR SIMILAR STRUCTURES TO THE NEW PAVEMENT GRADE SHALL BE DONE AS ORDERED. PAYMENT WILL BE UNDER ITEM 604.45 ADJUSTING CATCH BASIN AND DROP INLET GRATES AND FRAMES SET BY OTHERS.
- (22) EXISTING ANCHORS FOR CABLE GUARD RAIL SHALL BE DUG UP AND SALVAGED INTACT TO THE STATE.
- (23) ALL GUARD RAIL SHALL BE SET AT A 27 INCH RAIL HEIGHT BASED ON THE PAVEMENT OVERLAY, UNLESS OTHERWISE SHOWN OR ORDERED.
- (24) EXISTING DELINEATORS AND WITNESS MARKERS THAT ARE DISTURBED SHALL BE RESET.
 THIS WORK WILL BE SUBSIDIARY, ADDITIONAL DELINEATORS ORDERED WILL BE PAID
 UNDER APPROPRIATE ITEMS OF THE CONTRACT.
- 25) NO EXISTING MONUMENTS, BOUNDS, OR BENCHMARKS SHALL BE DISTURBED WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.
- ON THE TRAVELED WAY AS ORDERED. THIS WORK WILL BE SUBSIDIARY.
- (27) CLEARING AND GRUBBING ON THIS PROJECT WILL BE SUBSIDIARY:
- (28) ALL WORK ON THIS PROJECT, UNLESS OTHERWISE SHOWN ON THE PLANS OR ORDERED, SHALL BE CONSTRUCTED WITHIN THE EXISTING RIGHT OF WAY.

(29)	COORDINATES FOR THIS PROJECT ARE () AND THE BEARING SHOWN AF
\		 ;

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION - BUREAU OF HIGHWAY DESIGN

INDEX OF SHEETS.
AND GENERAL NOTES

BRF-032-1(20) P-4366 2 45

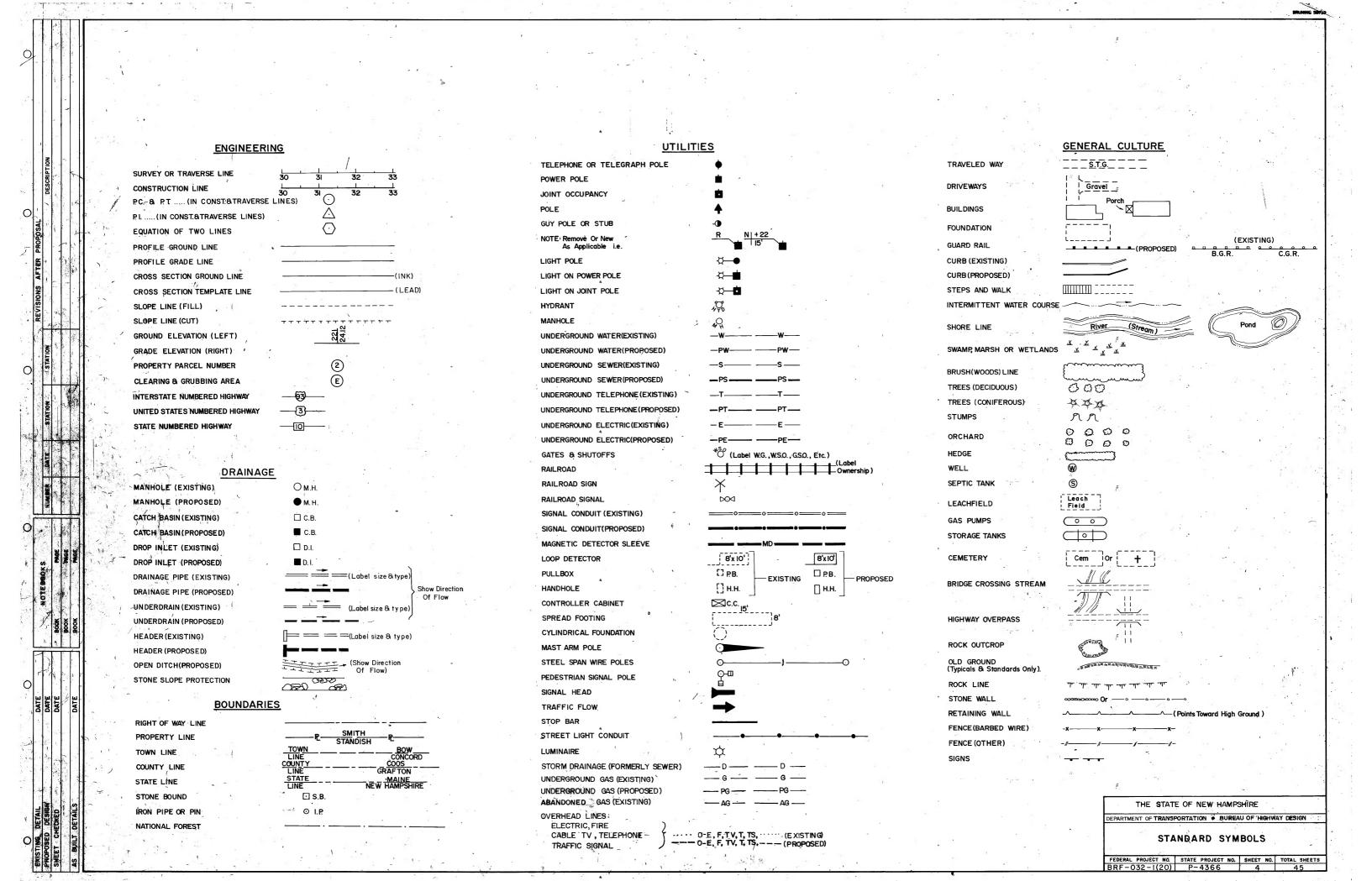
2. (STANDARD SHEETS		1
STANDARD	NO. I			
		CONCRETE AND M.R.M. HEADWALLS	REVISED	MARCH 24, 1977
STANDARD	NO. I-A	CONCRETE AND M.R.M. HEADWALLS	REVISED	MAY 8, 1970
STANDARD	NO. 2	STEEL ARCH PIPES, SLOPE PAVING, UNDERDRAIN HEADWALL	REVISED	MARCH I, 1983
STANDARD	NO. 2-A	CORRUGATED ALUMINUM PIPE, PIPE ARCH, UNDERDRAIN FLUSHING BASIN	•,	1
	110.2 A	CONTROLATED ALDMINOW FIFE, FIFE ARCH, UNDERDRAIN FLUSHING BASIN	REVISED	DECEMBER 20, 1982
STANDARD	NO. 3	CATCH BASINS, DROP INLETS,	PEVICED	0070050 17 1005
STANDARD	NO. 3-A	GRATES FOR C.B.'S & D.I.'S,	REVISED	OCTOBER 17, 1983
STANDARD	NO. 3-B	CATCH BASINS, DROP INLETS, TRAP	REVISED	OCTOBER 17, 1983
		onen prono, prof incerto, frap	REVISED	OCTOBER 17, 1983
STANDARD	NO. 4	CURBING	<u> </u>	
O TANDAND	110.4	CORDING	REVISED	APRIL 21, 1982
STANDARD	: NO 5	CONSCRETE DAMES CONTRACTOR		
STANDARD	NO. 5	CONCRETE BOUND, STEPS	REVISED	NOVEMBER I, 1984
STANDARD .	NO. 5-A	GUTTERS, SLUICE, SLOPES, MUCK EXCAVATION	REVISED	FEBRUARY 26, 1975
5.				(
STANDARD	NO. 6	BEAM GUARD RAIL	REVISED	JUNE 11, 1981
STANDARD	NO. 6-A	BEAM GUARD RAIL	REVISED	DECEMBER 10, 1981
1 . · · · · · · ·		ΥΥ		
				'4
STANDARD	NO. 7	BEAM GUARD RAIL	REVISED *	MAY 15,1985
	4			
STANDARD	NO. 8	3 CABLE GUARD RAIL	REVISED	MARCH 24, 1977
STANDARD	NO. 8-A	3 CABLE GUARD RAIL	REVISED	DECEMBER 10, 1981
	-	- /		
STANDARD	NO. 9	WOVEN WIRE & CHAIN LINK FENCE	REVISED	AUGUST 2, 1977
STANDARD	NO. 9-A	STEEL WITNESS MARKER, STEEL SIGN POST, DELINEATOR POST	REVISED	MAY 15,1985
,				- *
STANDARD	NO. IO	SIGNAL BASE, PULL BOX, CONDUIT DETAILS, HANDHOLE, FOUND FOR CONT.	REVISED	MAY 15,1985
STANDARD	NO. 10-A	CABINET LENS FOR TURNING MOVEMENTS, LIGHT POLE BASE, DETECTORS, PULL BOX	REVISED	NOVEMBER I, 1984
			A	11 3
STANDARD	NO. II	END SECTIONS FOR PIPES	REVISED	MAY 21, 1975
				1 1010
STANDARD	NO, 12	DELINEATORS FOR GUARD RAIL, MEDIAN BARRIERS	REVISED	MAY 15,1985
STANDARD	NO. 12-A	DELINEATOR SPACING FOR RAMPS AND LOOPS	REVISED	MAY 15,1985
The state of the s				mai 10,1000
STANDARD	NO. 13	URBAN MARKING AND SIGN POSTING.	REVISED	MARCH 1, 1983
				manor i jas
STANDARD	NO. 14	RUBBISH CONTAINER, FIREPLACE, TABLE, SHELTER	REVISED	AUGUST , 1969
		7	*.	
STANDARD	NO. 15	FIREPLACE, DRINKING FOUNTAIN, WATER PIPE DRAINS, PICNIC SITES	REVISED *	MARCH 24, 1977
		×4×		•
STANDARD	NO 16	SIDEWALK RAMPS, CONCRETE ISLAND BLOCKOUTS	REVISED	

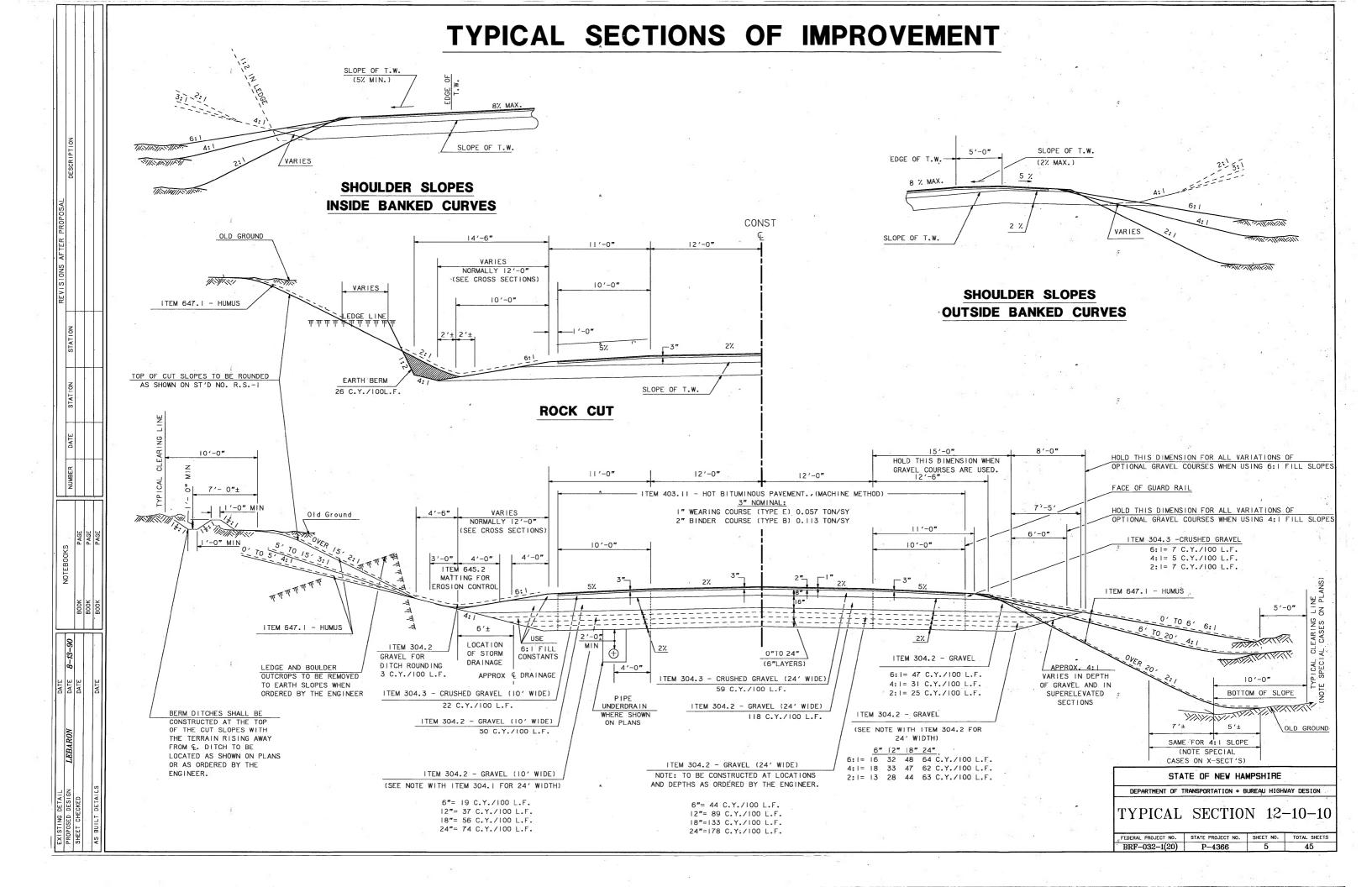
AFTER PROPOS

ĊS	NO. I	GENERAL NOTES	REVISED	MAY 15, 1985
		A CONTRACTOR OF THE CONTRACTOR		
CS .	NO. 2	BARRICADES, REMOVAL OF PAVEMENT MARKING, CONES, DRIJMS	REVISED	MAY 15 , 1985
cs	. NO. 3	PANELS & DELINEATORS, LIGHTING DEVICES, SIGN PADDLE, HAZARD MARKER	REVISED	MAY 15 , 1985
CS	NO. 4	TRAFFIC CONTROL PROCEDURES, HAUL ROADS, BLASTING ZONES	REVISED	MAY 15 . 1985
	·		·	
cs	NO. 5	TYPICAL LAYOUT - PERMANENT CONSTRUCTION SIGNING	REVISED	MAY 15 , 1985
		K .		
CS	NO. 6	SIGNS	REVISED	MARCH 1, 1983
cs	NO. 7	SIGNS	REVISED	MARCH I, 1983
cs	NO. 8	SIGNS	REVISED	MAY 15 , 1985
*			1	
cs	NO. 9	TWO-WAY TRAFFIC LANE CLOSURE AND SHOULDER WORK	REVISED	MAY 15 , 1985
		N.		74 1
cs .	NO. 10	2 LANE DIVIDED, 2 LANE CLOSURE - BREAKDOWN LANE	REVISED	MAY 15,4985
				
cs	NO. II	DETOUR FOR 2 LANE CLOSURE, 2 LANE DIVIDED - BRIDGEWORK	REVISED	MAY-15 , 1985
				<u> </u>
CS .	NO. 12	4-LANE DIVIDED -2 LANE CLOSURE UTILIZING CROSSOVER	REVISED	MAY 15, 1985
		<u> </u>	101	
cs	NO. 13	MULTI - LANE CLOSURE	REVISED	MAY 15, 1985

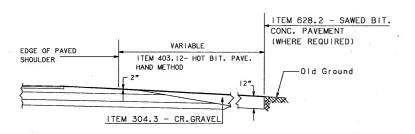
THE FOLLOWING STANDARD SHEETS WILL BE USED ON THIS PROJECT:									THE FOLLOWING CONSTRUCTION SIGN STANDARD SHEET: WILL BE USED ON THIS PROJECT:				
2	3	3-A	3-B		5	5-A		:	1	2	3	4	5
		-	9-A			11	12		6	7	8	9	
-			-			+ 111			11				

STAT	E OF NEW HA	MPSHIRI	Este
DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DESIGN STANDARD SHEETS			
ST	ANDARD SH	EETS	
FEDERAL PROJECT NO.	STATE PROJECT NO.	SHEET NO.	TOTAL SHEET
BRE - 032 - 1(20)	D-4366	77	45

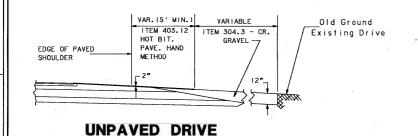




TYPICAL SECTIONS OF IMPROVEMENT



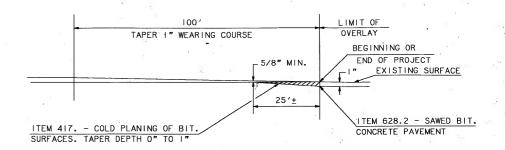
PAVED DRIVE



WIDTH OF PAVED SHOULDER (VARIES) S' MIN. R S' MIN. R DRIVE WIDTH (MATCH TO EXISTING) R = RADIUS (SHOWN ON PAVEMENT LAYOUT PLANS) DRIVEWAY APRONS

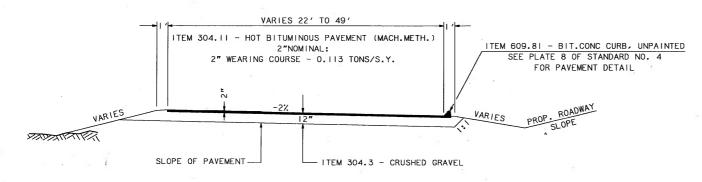
ATTENTION PROJECT ENGINEER

IT IS INTENDED THAT A PAVEMENT MATCH BE OBTAINED WITH THE EXISTING ROADWAY SURFACE ON EACH END OF THE PROJECT: STA. 100+50 AND STA. 318+50, N.H. ROUTE 302.

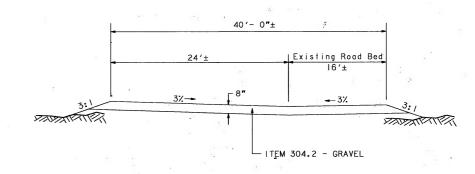


NOTE: THE LENGTH OF THE TAPER MAY BE ADJUSTED AS ORDERED TO PROVIDE FOR VARYING FIELD CONDITIONS OR CHANGES IN SINGLE COURSE DEPTH.

PAVEMENT MATCH TYPICAL



PAVED PARKING AREA



WINTER PARKING AREA

MISCELLANEOUS TYPICAL

LANDSCAPING & SLOPE PROTECTION

ITEM NO.	642.	643.12	644.44	644.6	645.11	645.2	645.51	647.1
ITEM	LIME- STONE	FERTILIZER FOR INITIAL APPLICATION	SLOPE SEED TY.44	CROWN- VETCH	MULCH	FOR EROSION CONTROL	FOR TEMP. EROSION CONTROL	HUMUS
UNIT	TON	TON	LB.	LB.	AC.	S.Y.	EACH	C.Y.
LOCATION .	. \$							
						L		L
SLOPE PROTECTION	6.6	1.44	198	7.2	3.3	100	100	1552
								L
					t		:	
SUB-TOTAL	6.6	1.44	198	7.2	3.3	100	100	1552
ROUNDING	0.4	0.16	22	2.8	0.2			123
	= = =	=====	===	===:	= = =	===	====	= = :
TOTAL	7	1.6	220	. 10	3.5	100	100	1675
			I					

FORCE ACCOUNT

STATE OF NEW HAMPSHIRE - PAVEMENT MARKING & SIGNING

WORK BY OTHERS

UNDERGROUND UTILITY CABLE RELOCATION

SUMMARY OF QUANTITIES (ESTIMATED)

THIS INFORMATION IS FOR BIDDING PURPOSES ONLY

A		Gl	JARDR	AIL				
1754 140	1 000 110	000 1/0	C00 1/05	COC /17	600 001	T 606 06	CUDCID	627
ITEM NO.	606.140	606.143	606.1465	606.417	606.821	606.86	SUBSID.	634.
	BEAM GUARD	BEAM GUARD	BEAM GUARD	PORT.CONC.	REMOVING	TYPE 'J'	REMOVAL	BOULDERS
ITEM	RAIL STD.	RAIL INCL.	RAIL TERM.	BARRIER FOR	ANCH, FOR	ANCH. FOR	OF EXIST.	FOR
11211	SECTION	TERM. SECT.	UNIT TY.F-1	TRAFFIC	TERMINAL	BEAM GUARD	BEAM GUARD	GUARD-
	(GR-140)	(GR-143)	(GR-1465)	CONTROL	'F' UNITS	RAIL	RAIL	RAIL
UNIT	L.F.	L.F.	UNIT	L.F.	EA.	EA.	L.F.	
LOCATION				1.0				
ROUTE 302				200 -50				
STA302+56.5 - 304+69.RT.	138.3137.5			150				
STA.303+06.5 - 304+69,LT.	287.5							
STA.306+31 - 307+93.5,RT.	99.2 87.5	1						
STA.306+31 - 308+70,LT.	207.200	42.8_43						
STA.304+30 - 304+35,LT.					2			
STA.306+65 - 306+85,LT.				 	2			
STA.304+30 - 305+00,LT.				<u> </u>		-	140	
STA.305+85 - 306+85,LT.	1			1			175	
STA.2+97±,PAVED PARK.AREA							11.0	4
				1				
SUB-TOTAL A	512. 5	43	3	200	4	I	315	4
ROUNDING	37.5	7						4
TOTAL	558	- 50	3	200	4		315	8
AS BULT TOTALS	5 22.4		.3	450		-		

INCIDENTAL ITEMS

ITEM NO.		UNIT	TOT
214.	FINE GRADING	UNIT	
618.7	FLAGGERS	HOUR	75
619.1	MAINTENANCE OF TRAFFIC INCLUDING DUST LAYING	UNIT	T
621.21	REFLECTORIZED BGR DELINEATORS(WHITE)	EACH	16
621.31	SINGLE DELINEATORS WITH POST (WHITE)	EACH	22
622.1	STEEL WITNESS MARKERS	EACH	- 11
622.2	CONCRETE BOUNDS	EACH	15
692.	MOBILIZATION	UNIT	-
698.12	FIELD OFFICE TYPE B	UNIT	I
698.2	PHYSICAL TESTING LABORATORY	UNIT	1
699.	TEMPORARY PROJECT WATER POLLUTION CONTROL	\$	
1008.	ALTERATIONS AND ADDITIONS AS NEEDED	\$	

MATERIALS SALVAGED TO THE STATE

EXISTING PIPES

EXISTING BEAM GUARDRAIL

ANCHORAGES FOR BEAM GUARDRAIL

SUBSIDIARY ITEMS

CONSTRUCT WATERTIGHT CONNECTIONS BETWEEN EXISTING AND PROPOSED PIPES.

CONSTRUCT UL-4 HEADER

REMOVAL OF EXISTING BEAM GUARDRAIL

REMOVAL OF EXISTING PIPES WHEN IN PROPOSED PIPE TRENCH

NOTE: THIS SUMMARY SHOULD NOT BE CONSIDERED A COMPLETE LIST OF SUBSIDIARY WORK PRESENT IN THIS PROJECT. REFER ALSO TO THE PLANS, PROPOSAL, SPECIAL PROVISIONS, AND STANDARD SPECIFICATIONS.

CONSTRUCTION SIGNS & WARNING DEVICES

	(MINIMUM RE	QUIREMEN	NTS)							
WI-3R REVERSE TURN RIGHT (90 DEG.ARROW WI-8 CHEVRON		TOTAL UNIT = 1								
SIGN NO.	DESCRIPTION	SIZE	SQ.FT.	NO.REG.	TOT.AREA	POSTS	EASEL			
G20-2	END CONSTRUCTION	3x6	18	2	36	4				
	REVERSE TURN LEFT (90 DEG.ARROW)	4x4	16	2	32	4				
		4x4 2x2.5	16 5	10	32 50	10	 			
W13-1	30 MPH	2x2	4	2	8	4				
W20-1a	ROAD (BRIDGE) CONSTRUCTION AHEAD	4x4	16	2	32	4				
W20-le W20-lf	ROAD (BRIDGE) CONSTRUCTION & MILE ROAD (BRIDGE) CONSTRUCTION MILE	4x4 4x4	16	2	32 32	4 4				
#ZU-11	NOAD CHILDREY CONSTRUCTION I MILE	7^7	10	-	- ³²		 			

PAVEMENT MARKING

· · ·							
ITEM NO.	619.41	619.51	619.91	632.0104	632.0304	632.0504	632.08
ITEM	SHORT TERM PAVE.MARK. TAPE, ALLUM. FOIL	SHORT TERM PAVE.MARK. TAPE,60 MIL. REMOVABLE	REMOVAL OF PAVE. MARKINGS	REFL.PAINT PAVE.MARK. SINGLE SOLID LINE 4"	REFL.PAINT PAVE.MARK. DOUBLE SOLID LINE 4"		REFL.PAINT PAVE.MARK. SINGLE LEGEND (HANDICAPPED SY.)
UNIT A	LF	LF	LF	LF	LF	LF	EA.
STA.99+50 - 317+50,LT.& RT. STA.306+30 - 309+00,LT. (PARKING AREA)	500	2500	5000	3800 270	1250	650	
SUB-TOTAL ROUNDING	500	2500	4000	4070 280	1250	650 50	
TOTAL .	500	2500	4000	4350	1300	700	1 .

EARTHWORK

ITEM		· C.Y.	ITEM
			TOTAL
	CONTROL EVOLUTION IN CECTACUS	6000	
	COMMON EXCAVATION IN SECTIONS TOPSOIL REMOVED BENEATH FILL SECTIONS (EST)	6289 178	
	UNSUITABLE MAT. REMOVED BENEATH FILL SECTIONS (EST)	2114	
	UNSUITABLE MAT.REMOVED BENEATH FILL SECT. (EXIST.PAVE.)	275	
	DRIVE AND APPROACH EXCAVATION (COMMON)	29	
203.1	TOTAL COMMON EXCVATION	8885	9500
	COMMON STRUCTURE EXCAVATION	33	
	SUB-TOTAL (FOT)	8918	
	TOPSOIL REMOVED FOR USE AS LOAM OR HUMUS (EST)	750 564	
	UNSUITABLE EXCAVATION (EST)		
	COMMON EXCAVATION FOR FILL	7604	
	= = = = = = = = = = = = = = = = = = =	1004	
	BOULDERS ETC. IN SECTIONS (2 CY)	195	
	BOULDERS (I CY) - 5% TOTAL STRUCTURE EXCAVATION	29	
	DRIVE AND APPROACH EXCAVATION (BOULDERS ETC.)		
	ROCK NOT COVERED BY SECTIONS	151	
	TOOK NOT COTENED TO CENTURE		
203.2	TOTAL ROCK EXCAVATION	376	400
	BOULDERS IN SECTIONS (2 CY) EXPANDED 20%	234	
	BOULDERS, ETC.	181	
	ROCK STRUCTURE EXCAVATION	, 2	
	ROCK FOR FILL	417	
	SECTIONS FILL	11162	
-	TOPSOIL REPLACEMENT (EST)	178	
	UNSULTABLE MATERIAL REPLACEMENT (EST)	2114	
	TOTAL FILL	13454	
	ROCK FOR FILL	417	
	FILL BEFORE EXPANSION	13037	
	SHRINKAGE FACTOR (0%)	17077	-
	EXPANDED FILL	13037 7604	
	COMMON EXCAVATION FOR FILL	7 604	
	SUB-TOTAL BORROW	5433	<u> </u>
	15% INPLACE MEASURED QUANTITIES	1179	
	13% THE LACE MEASURED GOANTTILES		
203.5	BORROW	6612	7000
	EXISTING PAVEMENT REMOVED (EST)	. 600	
	WASTE, (MUCK,ETC.)	564	
	TOTAL WASTE	1164	L
	•		

SURFACING MATERIALS

ITEM NO.	304.2	304.3	304.35	403.11	403.12	417.	628.2
ITEM	GRAVEL	CRUSHED GRAVEL	CR. GR. FOR UNPAVED DRIVES	METHOD)	HOT BIT. PAVEMENT (HAND METHOD)	COLD PLANNING OF BIT. SURFACES	SAVED BITUMINOU CONCRETE PAVEMENT
UNIT	C.Y.	C.Y.	C.Y.	TON	TON	S.Y.	L.F.
LOCATION						100	
ROUTE 302	5332	2037		1488		178	64
PAVED PARK.AREA		488		128			
DRIVES			25		3		
WINTER PARK AREA	250						
SUB-TOTAL :	5582	2525	25	1616	3	178	64
ROUNDING	418	225	.5	134	2 .	12	6
TOTAL	6000	2750	30	1750	5	190	70

DRAINAGE

									DR	AIIIA	GL.						
ITEM NO.	202.41	202.5	206.1	206.2	SUBSID.	1585.3				60)3		A	604.11	604,242	605.906	
ITEM	REMOVAL OF EXIST. PIPE 0"-		COMMON STRUCT.	ROCK STRUCT. EXCAV.	MORTAR	STONE FILL	.00215 15" RCP 2000 D	12" CSP .064"	15" CSP	END SECT.	.34112 STEEL END SECT. FOR 12"PIPE ISE	SECT. FOR	.49012 12" PIPE FOR SLOPE	CATCH BASINS TYPE	DROP	6" PIPE	
UNIT																	
LOCATION				L					L								
99+00,LT 301+00,RT.				-5-		-								 	ļ — —	-200	
301+00,LT.& RT.	44 🗸	2 1/		332.5			/L.* 55-		192.5				-	2			2 CB-A'S LT.34' & RT.35'
301+00 - 303+00,LT.									-200					1			CB-A @ 303+00,LT.48.5'
301+00 - 304+30,LT.	-275 224			6													REMOVAL OF 50'x15"PIPE (SUBSID)
301+00 - 303+75,RT.				-7.3		-5		,	197							-200	CONSTRUCT UL-4 HEADER (SUBSID)
303+00 - 305+00.LT.				18-8-				-	- 200			L					
303+951 -304+00± RT				3.54		21.3					15						
304+75,LT.& RT.			15	-3-		+	- 90				2 .		35.52		2		CONST.CLASS C STONE @ OUTLET,RT.
311+00.LT.&RT.		177	14	4.2		2	-90	35		2+							REMOVAL OF EXIST.37'x15"PIPE(SUBSID)
315+84 - 316+22,RT.								-30 -		_	2						CONST. CONN. TO EXIST. 15"CMP (SUBSID)
				t										1			CONST.INLET DITCH WITH CLASS C STONE
SUB-TOTAL	319	2	29	31.3		3.5	155	39	 400		4		47-52	3	2	490	REMOVE EXISTING HEADER, 3'LT.
ROUNDING	24		6	-2.7		سۇبىلە	15	7-	-30-				-			25-	•
		<u> </u>			t	 							+	1		t	NOTE: GRANULAR BACKFILL FOR UNDERDRAIN
TOTAL	340	2	35	-34		5	-170	45	430	, _	4		. 60	3	2	-5+5-	SHALL CONFORM TO 209.2.1.1.2

CLEARING / GRUBBING

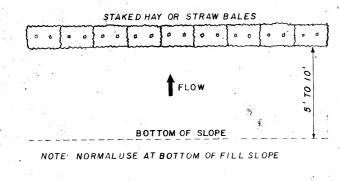
ITEM NO.		201.1
THE AREAS LISTED BELOW		CLEARING
ARE SHOWN ON THE PLANS	· .	AND
SHEETS BY LETTER ID'S	DSGNTD.	GRUBBING
UNIT	AREA	ACRE
LOCATION		
STA.99+40 - 305+20,LT.	A	.60
STA.99+40 - 301+85,RT.	В	.17
STA.306+00 - 312+00,RT.	С	.72
STA.306+20 - 306+75,LT.	D	.01
STA.312+40 - 315+83,LT.	E	.27
STA.311+93 - 313+78,RT.	F	.05
STA.313+95 - 317+78,RT.	G	. 19
STA.316+20 - 317+85,LT.	Н	.10
WINTER PARK.AREA	T	. 15
,		
SUB-TOTAL		2.26
ROUNDING		: .24
	1	
TOTAL		2.50

CURBING

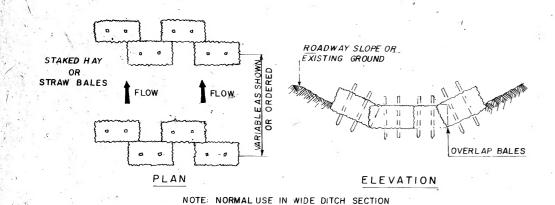
ITEM NO.	609.01	609.81
ITEM	STRAIGHT GRANITE CURB A	BIT.CONC. CURB, UNPAINTED
UNIT	L.F.	L.F.
LOCATION		
STA.304+00 - 304+66,LT. STA.304+00 - 304+66,RT.		66 66
STA.304+66 - 305+00,LT. STA.304+66 - 305+00,RT.	34	
STA.306+00 - 306+34.LT	34	
STA.306+00 - 306+34,RT.	34	
STA.1+25-2+65,LT.PAVED PARK.AREA		137
SUB-TOTAL .	136	269
ROUNDING	14	31
TOTAL	150	300

"AS- BUILT TOTALS"

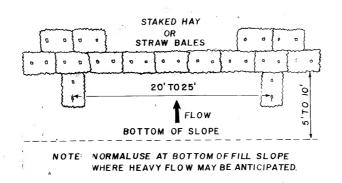
FEDERAL PROJECT NO.	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
BRF-032-1(20)	P-4366	7	45



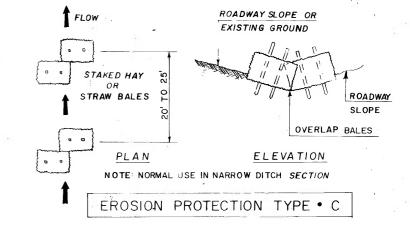
EROSION PROTECTION TYPE . A

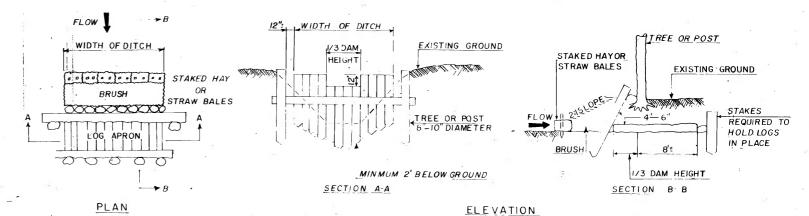


EROSION PROTECTION TYPE • D



EROSION PROTECTION TYPE • B





NOTE: NORMAL USE IN, OR JUST UPSTREAM OF WATER COURSE

EROSION PROTECTION TYPE • E

GENERAL NOTES

- () BALED HAY AND STRAW WILL BE PAID UNDER ITEM 645.51
- ② STAKES TO HOLD BALES SHALL BE 2" BY2" OR EQUIVALENT SAPLINGS AND SHALL BE LONG ENOUGH TO EXTEND I FOOT MINIMUM INTO THE GROUND. STAKE, LOGS, AND BRUSH WILL BE SUBSIDIARY
- BALES SHALL BE SET 3! INCHES BELOW GROUND SURFACE
 OR AS ORDERED. ANY REQUIRED EXCAVATION TO SET BALES
 WILL BE SUBSIDIARY.
- HAY BALES WILL BE ALLOWED TO ROT IN PLACE EXCEPT IN HIGHLY VISIBLE AREAS WHERE THE ENGINEER MAY ORDER REMOVAL AS SUBSIDIARY WORK

STATE OF NEW HAMPSHIRE

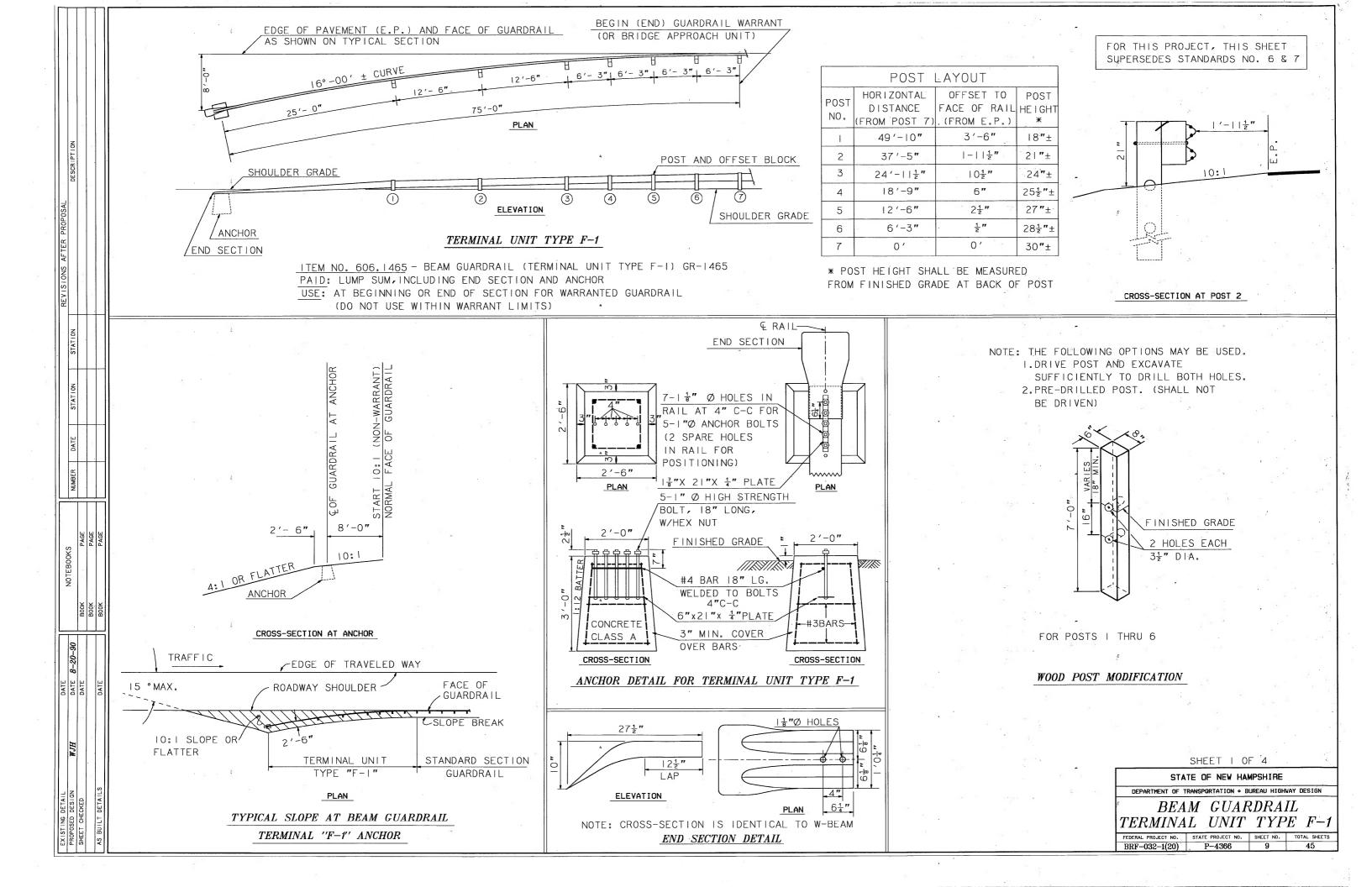
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

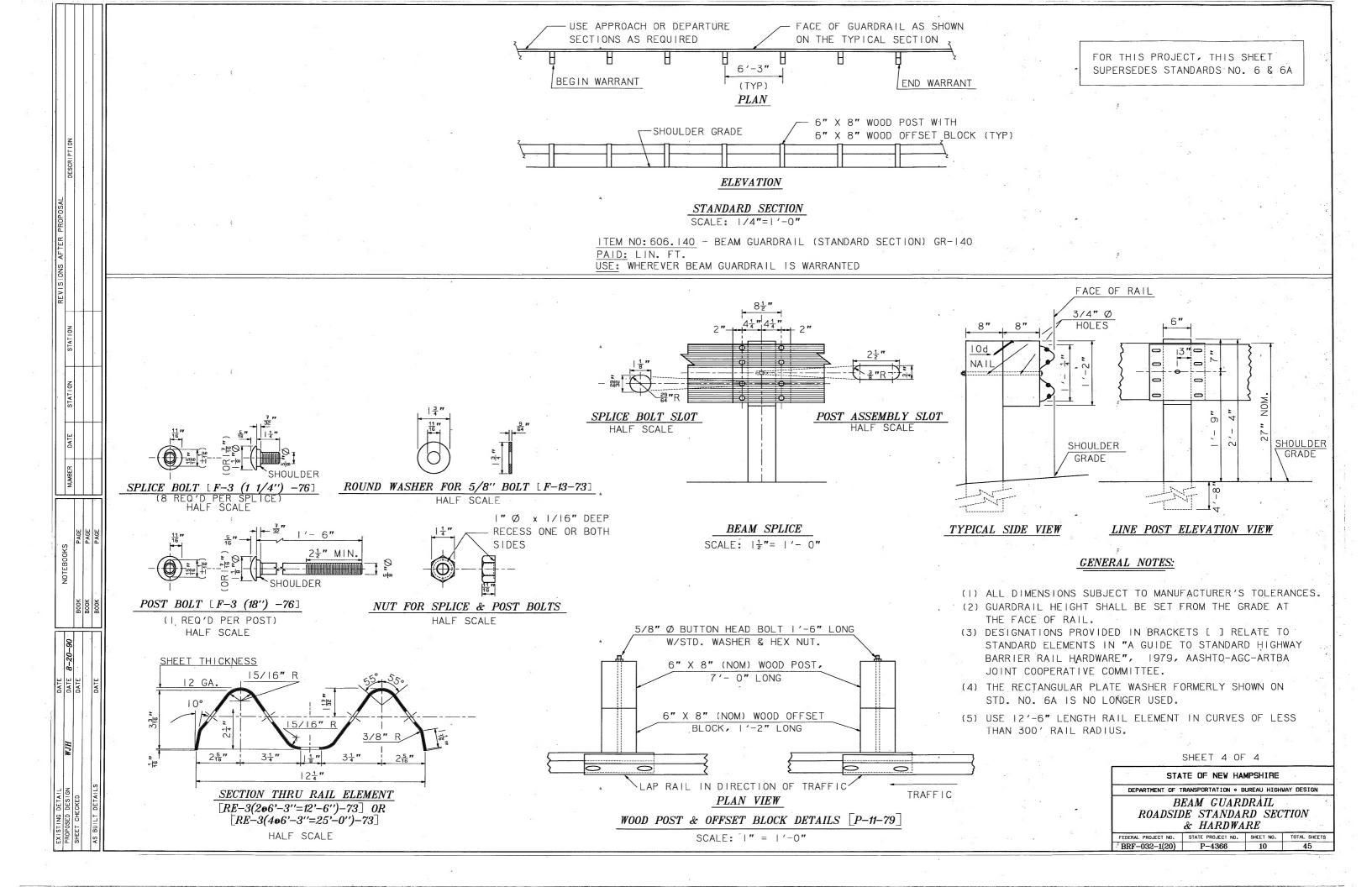
TEMPORARY EROSION
CONTROL MEASURES

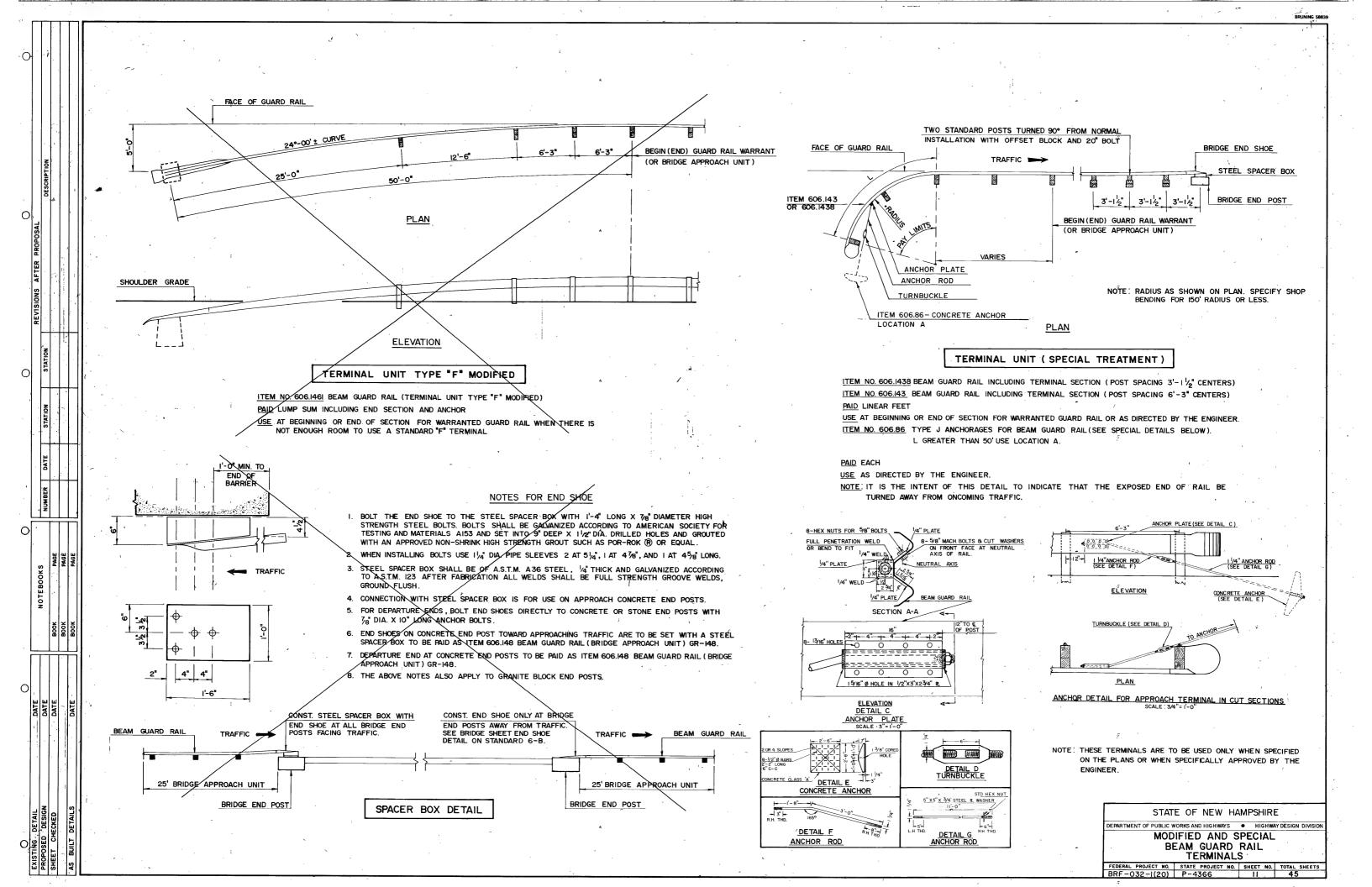
FEDERAL PROJECT NO STATE PROJECT NO SHEET NO TOTAL SHEETS

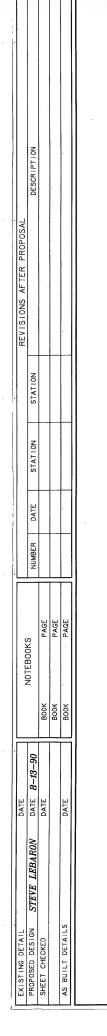
BRF-032-1(20) P-4366\

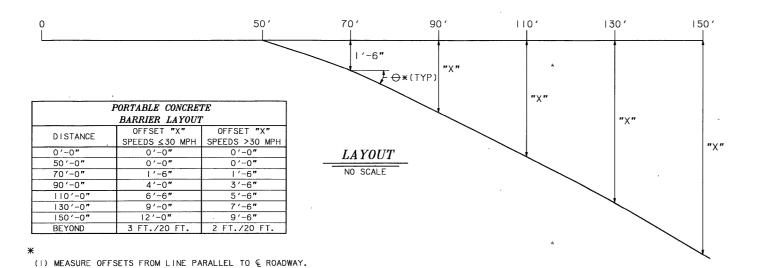
8 45











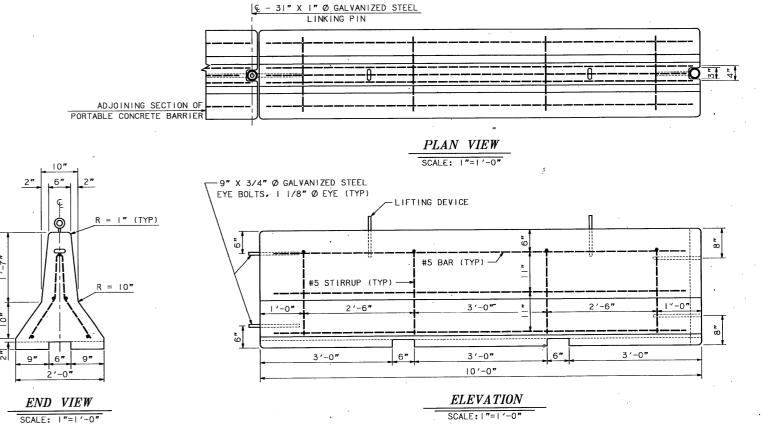
LAYOUT NOTES FOR PORTABLE CONCRETE BARRIER

- (I) OFFSETS SHOWN IN THE ABOVE CHART ARE FROM A LINE PARALLEL TO THE ROADWAY CENTERLINE, WHETHER ON A CURVE OR TANGENT SECTION.
- (2) USE <u><30</u> MPH CHART VALUES FOR BARRIER LAYOUT.

(2) FOR OPERATING SPEEDS: \geq 50 MPH, MAX \Leftrightarrow = 5.7° (10:1 TAPER RATE) USE FOR SPEEDS > 30 MPH.

(3) FOR OPERATING SPEEDS: < 30 MPH, DESIRABLE → = 8.1° (7:1 TAPER RATE)

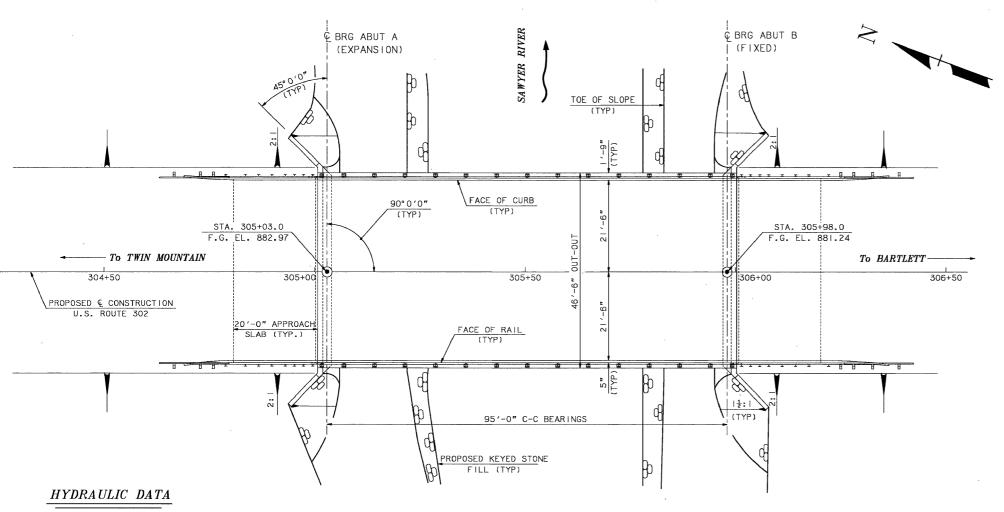
- (3) CONCRETE BARRIER RAIL SHALL BE FURNISHED BY THE CONTRACTOR AND PAID AS ITEM 606.417, PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL.
- (4) THE CONTRACTOR SHALL FURNISH AND INSTALL APPROVED REFLECTIVE DELINEATORS AT 25 FOOT INTERVALS ALONG THE TRAFFIC FACE OF THE PORTABLE CONCRETE BARRIER. ALL COSTS SHALL BE INCLUDED IN ITEM 606.417.
- (5) TEMPORARY LIGHTS SHALL BE 250 WATT HIGH PRESSURE SODIUM LUMINAIRES WITH 40 FOOT MOUNTING HEIGHT, 12 FOOT BRACKET ARMS, AND AERIAL WIRING. PAY UNDER ITEM 1008.



PORTABLE CONCRETE BARRIER DETAILS

PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL

FEDERAL PROJECT NO.	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
BRF-032-1(20)	P-4366	12	45



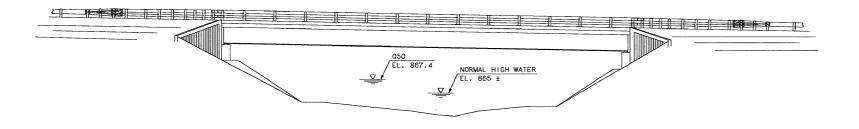
(I) DRAINAGE AREA: 23.85 SQ. MI.

(2) DESIGN FLOOD: Q50 = 7200 cfs EL. 867.4

(3) DESIGN VELOCITY: 15.2 fps

(4) BRIDGE WATERWAY OPENING: 460 SQ. FT. BELOW Q50 ELEVATION 867.4

PLAN



ELEVATION

WINDOW NAME DRAWING NAME *FGB FILE NAME SHEET SCALE TRACED CHECKED
GENPLAN GENPLAN BR-SITE.FGB 3/32"= 1'-0" QUANTITIES JCA 7/90 CHECKED

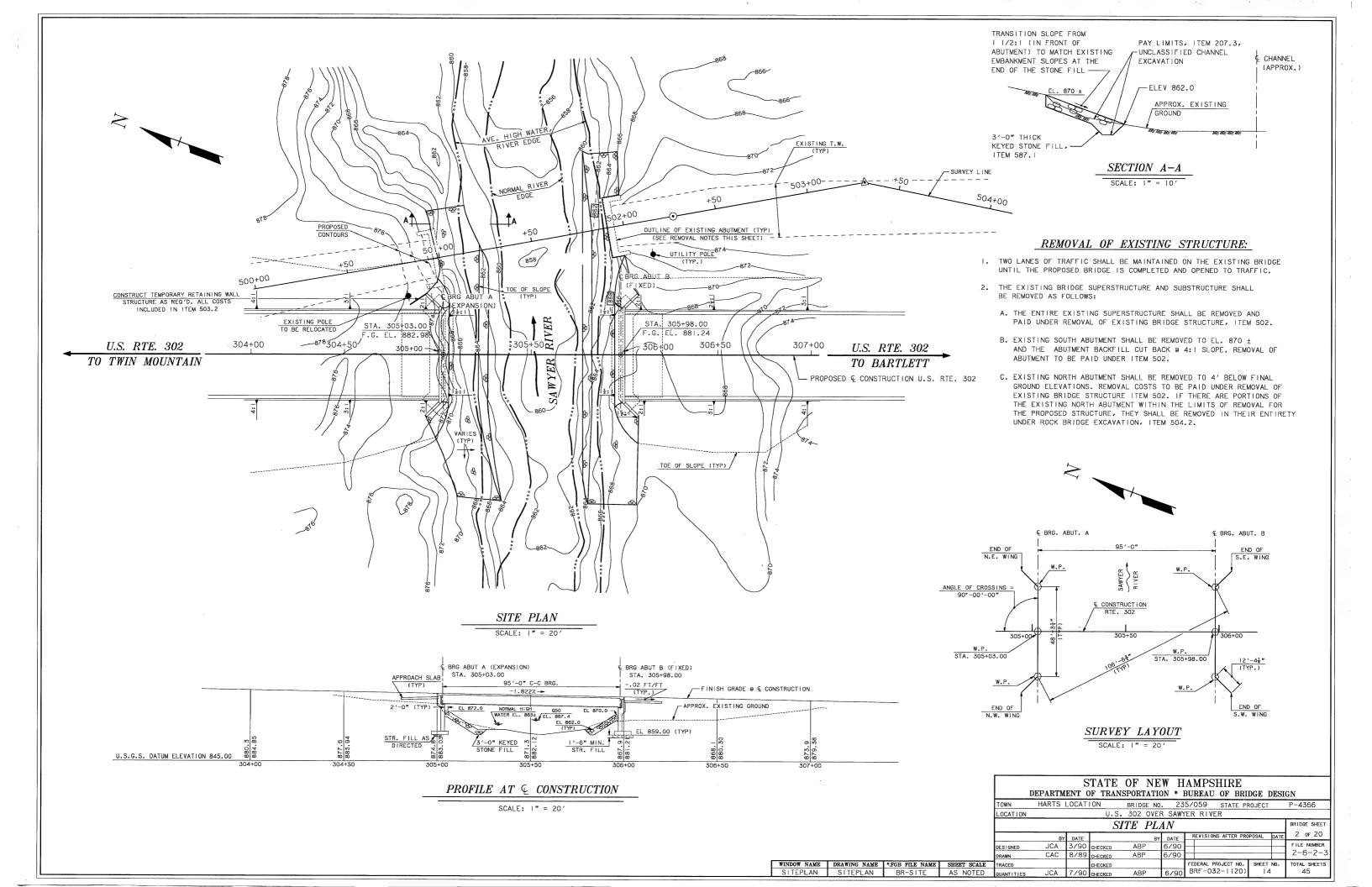
GENERAL NOTES

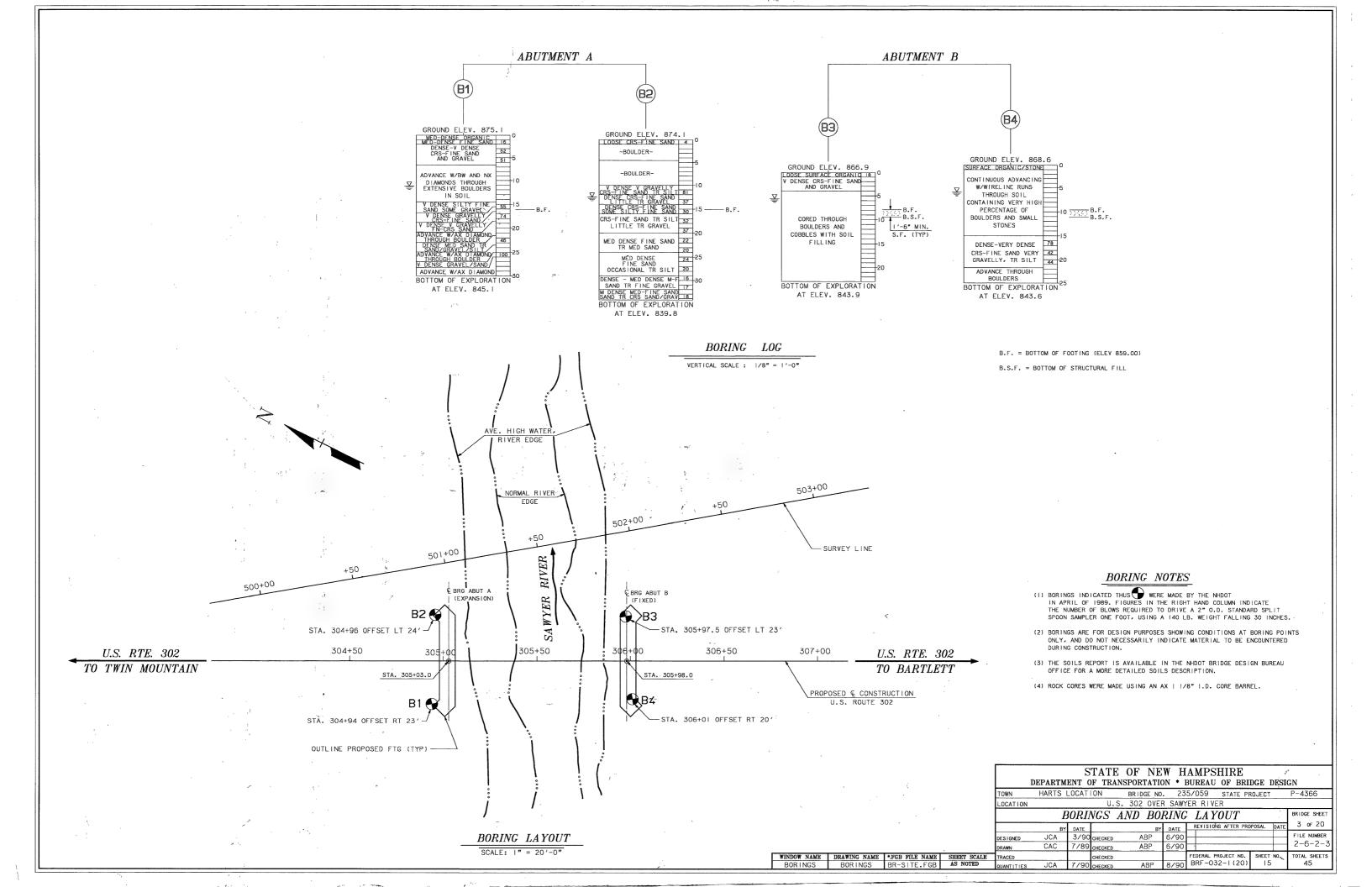
- (1) DESIGN LOADING: HS25-44 AS MODIFIED FOR 125% OF MILITARY LOADING.
- (2) SPECIFICATIONS: AASHTO 1989 WITH INTERIMS
 NHDOT 1983 STANDARD SPECIFICATIONS AS AMENDED
- (3) FOUNDATION DATA: ABUTMENTS A & B REINFORCED CONCRETE SPREAD FOOTINGS
 DESIGN FOUNDATION PRESSURE=3 TONS/SF
- (4) REINFORCING STEEL: AASHTO M31 (ASTM A615) GRADE 60
 DECK REINFORCING STEEL SHALL BE EPOXY COATED
- (5) STRUCTURAL STEEL: AASHTO M270 GR 50W (ASTM A709, GR 50W), UNPAINTED
- (6) CONCRETE: BRIDGE DECK & ABUTMENT BACKWALLS: f'c = 4,000 psi ABUTMENTS & FOOTINGS: f'c = 3,000 psi
- (7) UTILITIES (BY OTHERS):
 - 2 4" CONDUITS (TELEPHONE) ON UPSTREAM SIDE OF BRIDGE. I 4" CONDUIT (ELECTRICAL) ON UPSTREAM SIDE OF BRIDGE.
- (8) FOR SURVEY LAYOUT SEE BR. SHEET 2 OF 20.

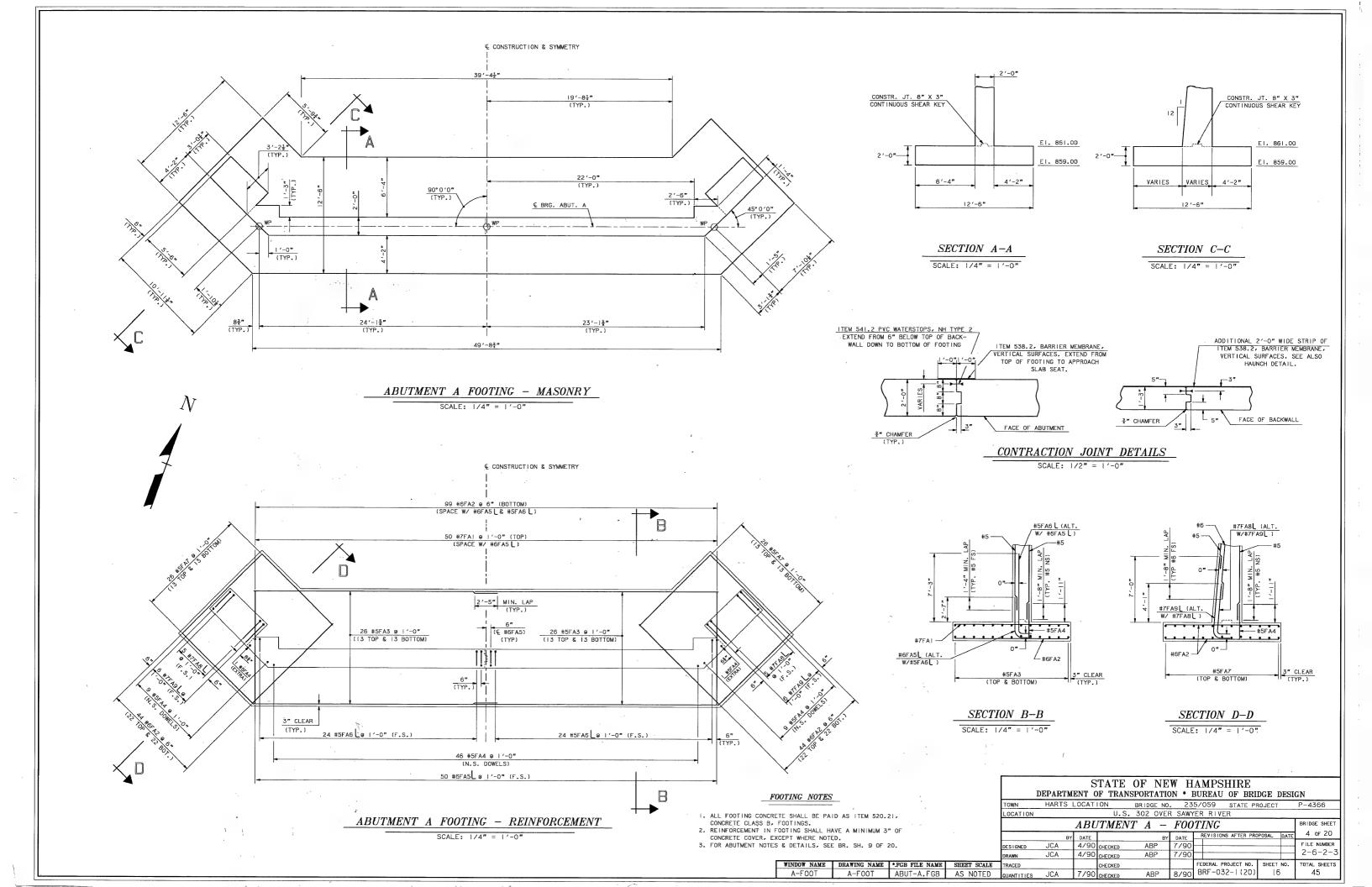
SL	IMMARY OF BRIDGE QUANTI	TIES	5
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
207.3	UNCLASSIFIED CHANNEL EXCAVATION	650	CY
209.1	GRANULAR BACKFILL (BRIDGE)	700	CY
403,911	HOT BITUMINOUS BRIDGE PAVEMENT, I" BASE COURSE		
	WITH POLYESTER FIBER	27	TON
502.	REMOVAL OF EXISTING BRIDGE STRUCTURE	ı	U
503.2	COFFERDAMS	ı	U
504.1	COMMON BRIDGE EXCAVATION	541	CY
504.2	ROCK BRIDGE EXCAVATION	180	CY
508.	STRUCTURAL FILL	52	CY
520.12	CONCRETE CLASS A ABOVE FOOTINGS (EST. 194 CY)	I	Ü
520.13	CONCRETE CLASS A, APPROACH SLABS	65.2	CY
520.21	CONCRETE CLASS B, FOOTINGS	109.3	CY
520.7	CONCRETE BRIDGE DECK (EST. 135 CY)	l l	U
534.3	WATER REPELLENT (SILANE - SILOXANE)	14	GAL
537.	CONCRETE SEALER	20	GAL
538.1	BARRIER MEMBRANE	476	SY
538.2	BARRIER MEMBRANE, VERTICAL SURFACES	88	SY
541.2	PVC WATERSTOPS, NH TYPE 2	39	LF
541.5	PVC WATERSTOPS, NH TYPE 5	93	LF
544.	REINFORCING STEEL	41,098	LB
544.2	REINFORCING STEEL-EPOXY COATED	41,611	LB
547.	SHEAR CONNECTORS (1,350 TOTAL)	1	U
550.1	STRUCTURAL STEEL (EST. 132,000 LBS.)	ı	U
550.2	BRIDGE SHOES	ı	U
562.I	ELASTOMERIC SEALANT	65	CI
563.12	BRIDGE RAILING, ST	199	LF
565.12	BRIDGE APPROACH RAIL, ST	124	LF
587.1	KEYED STONE FILL	887	CY
609.3	STRAIGHT GRANITE CURB (BRIDGE)	199	LF

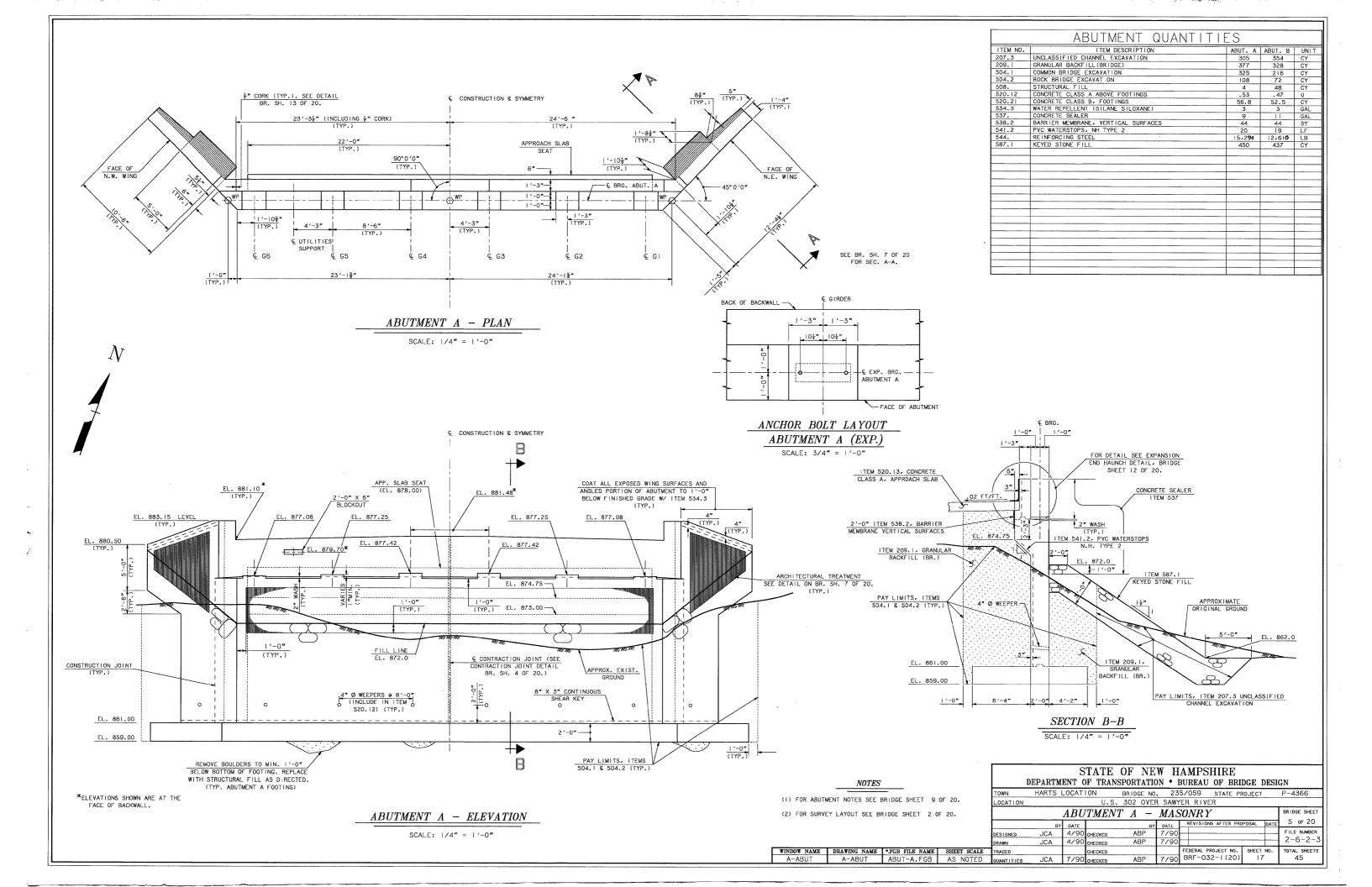
STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN

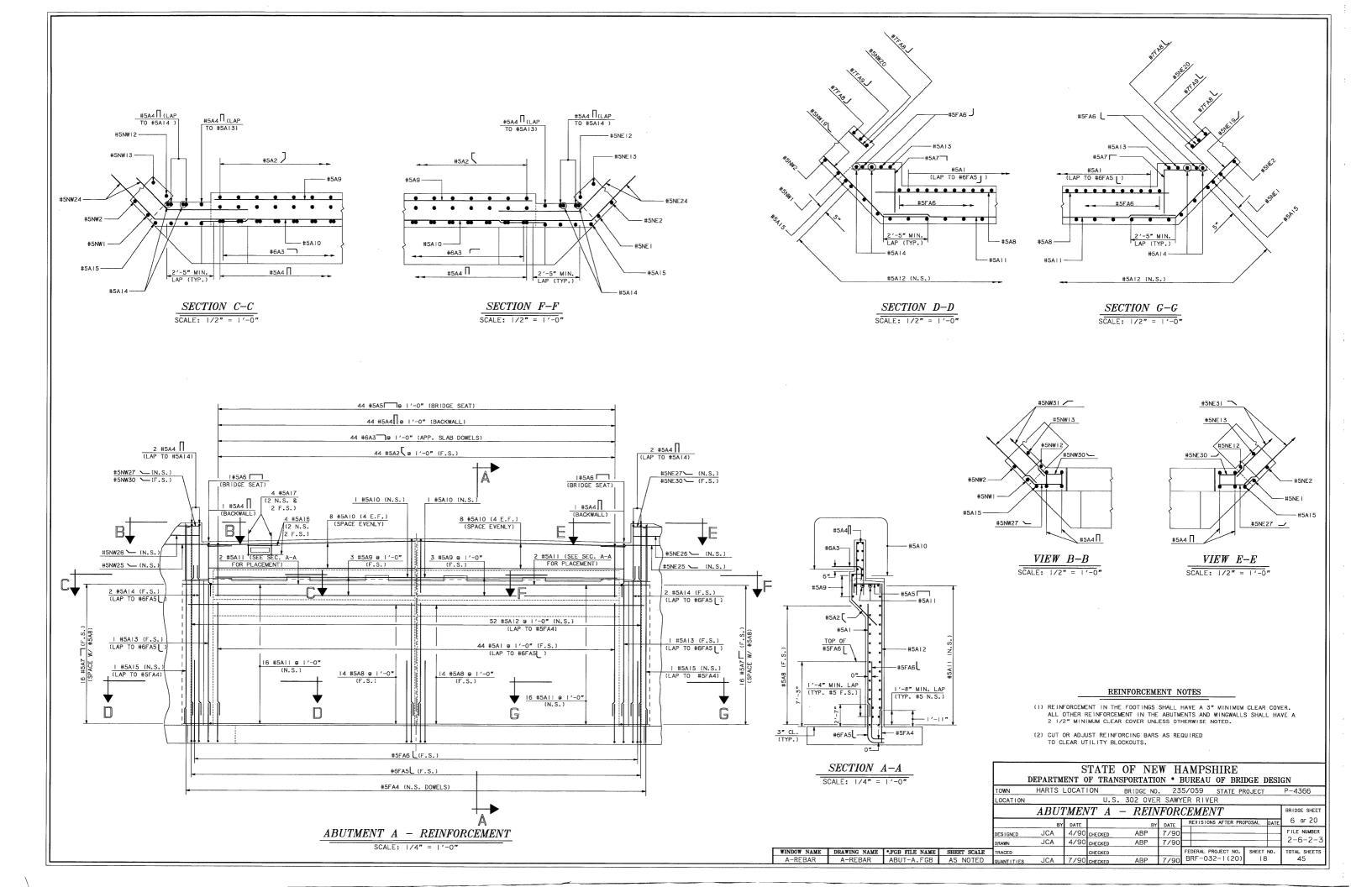
TOWN	HARTS I	LOCAT	ION	BRIDGE NO	. 23	5/059	STATE P	ROJECT		P-4366
LOCATION			U.S	S. 302 OVER	R SAWY	ER RIV	ER		•	
	G	ENEI	RAL	PLAN A	ND I	ELEVA	TION			BRIDGE SHEET
	BY	DATE		BY	DATE	REVISIO	NS AFTER PRO	POSAL	DATE	1 of 20
DESIGNED	JCA	3/90	CHECKED	ABP	6/90					FILE NUMBER
DRAWN	TPL	2/89	CHECKED	ABP	6/90					2-6-2-3
TRACED			CHECKED				ROJECT NO.	SHEET		TOTAL SHEETS
QUANTITIES	JCA	7/90	CHECKED	ABP	8/90	BRF-03	32-1(20)	. 13		45

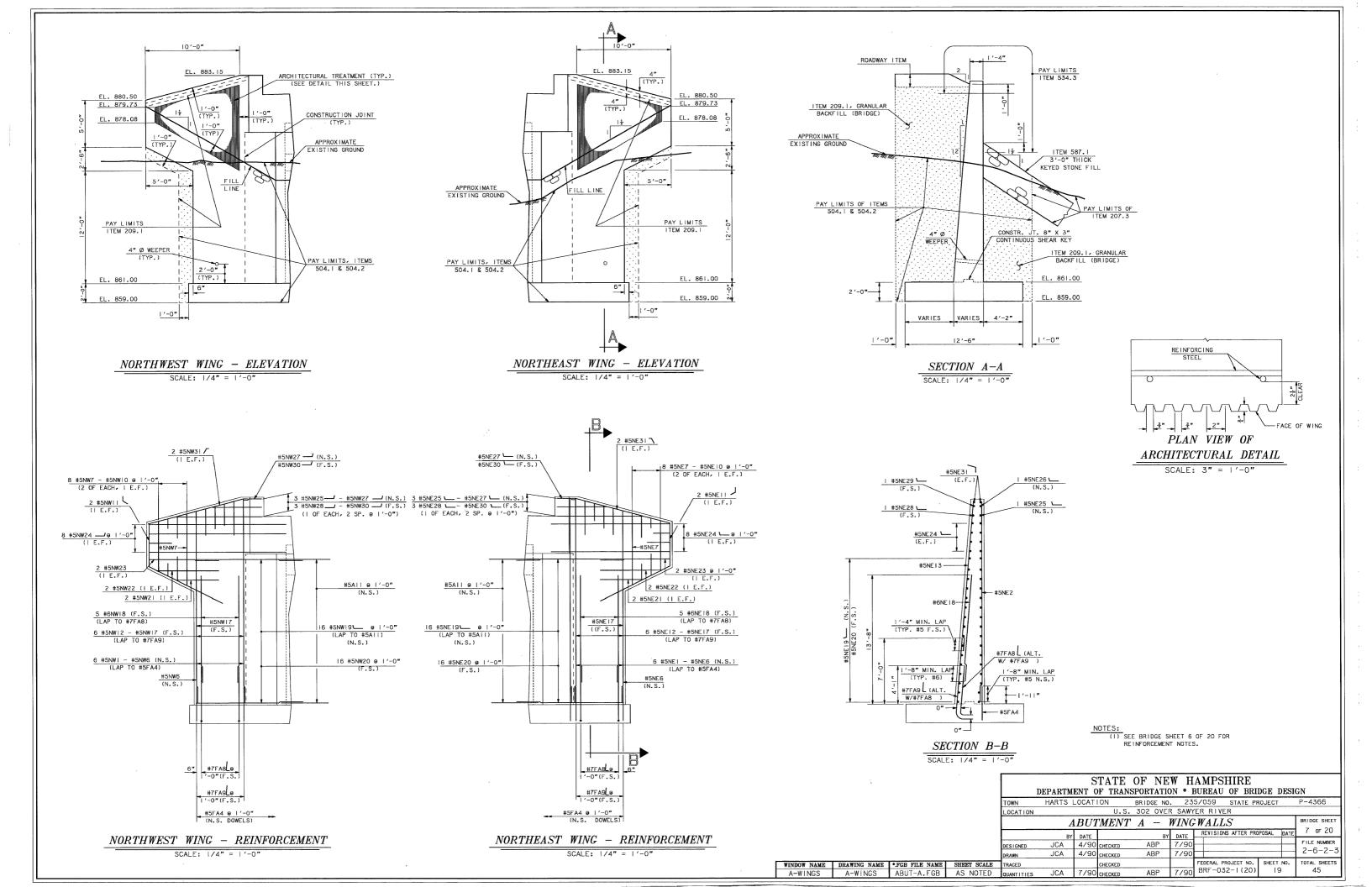


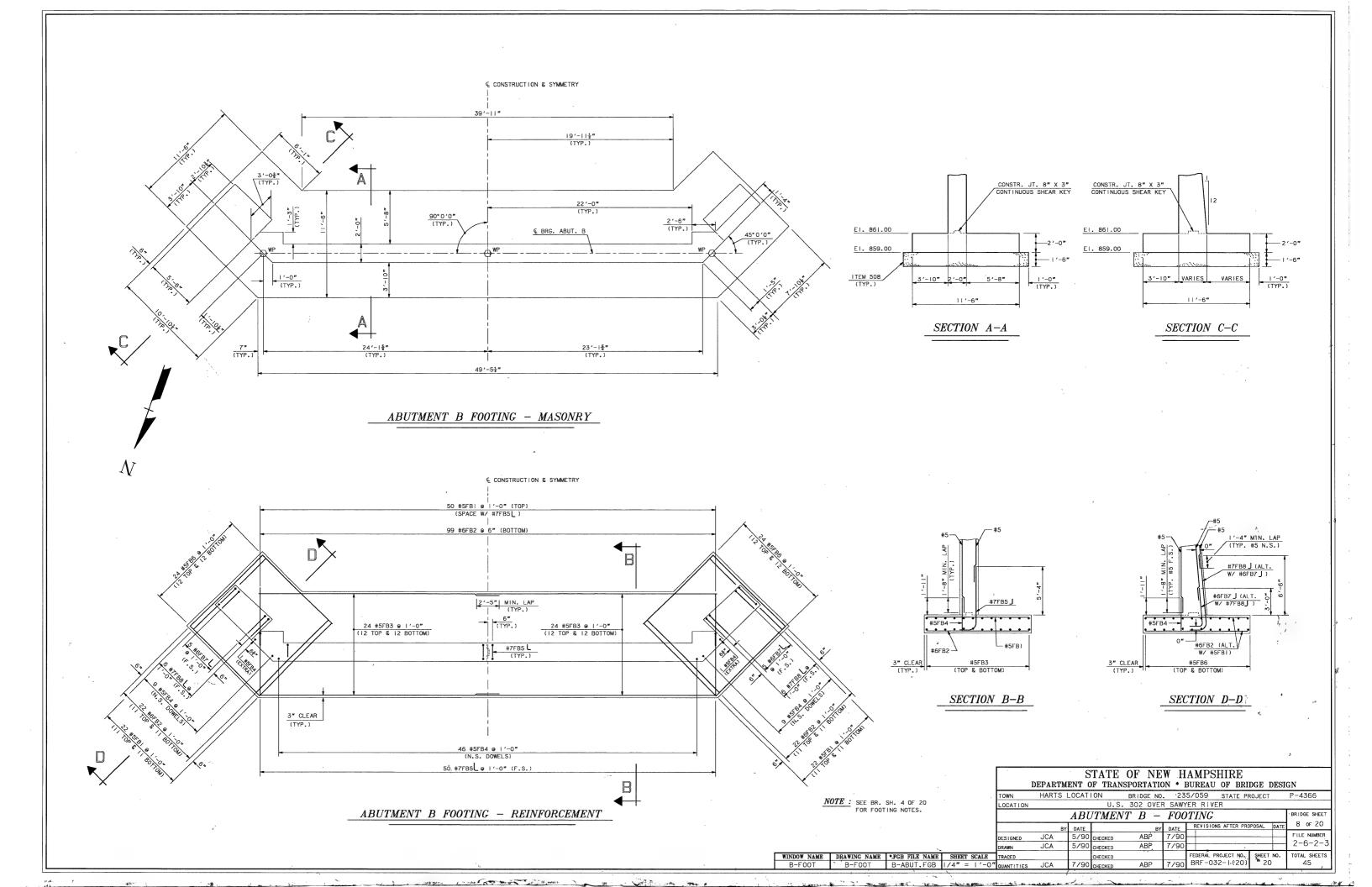


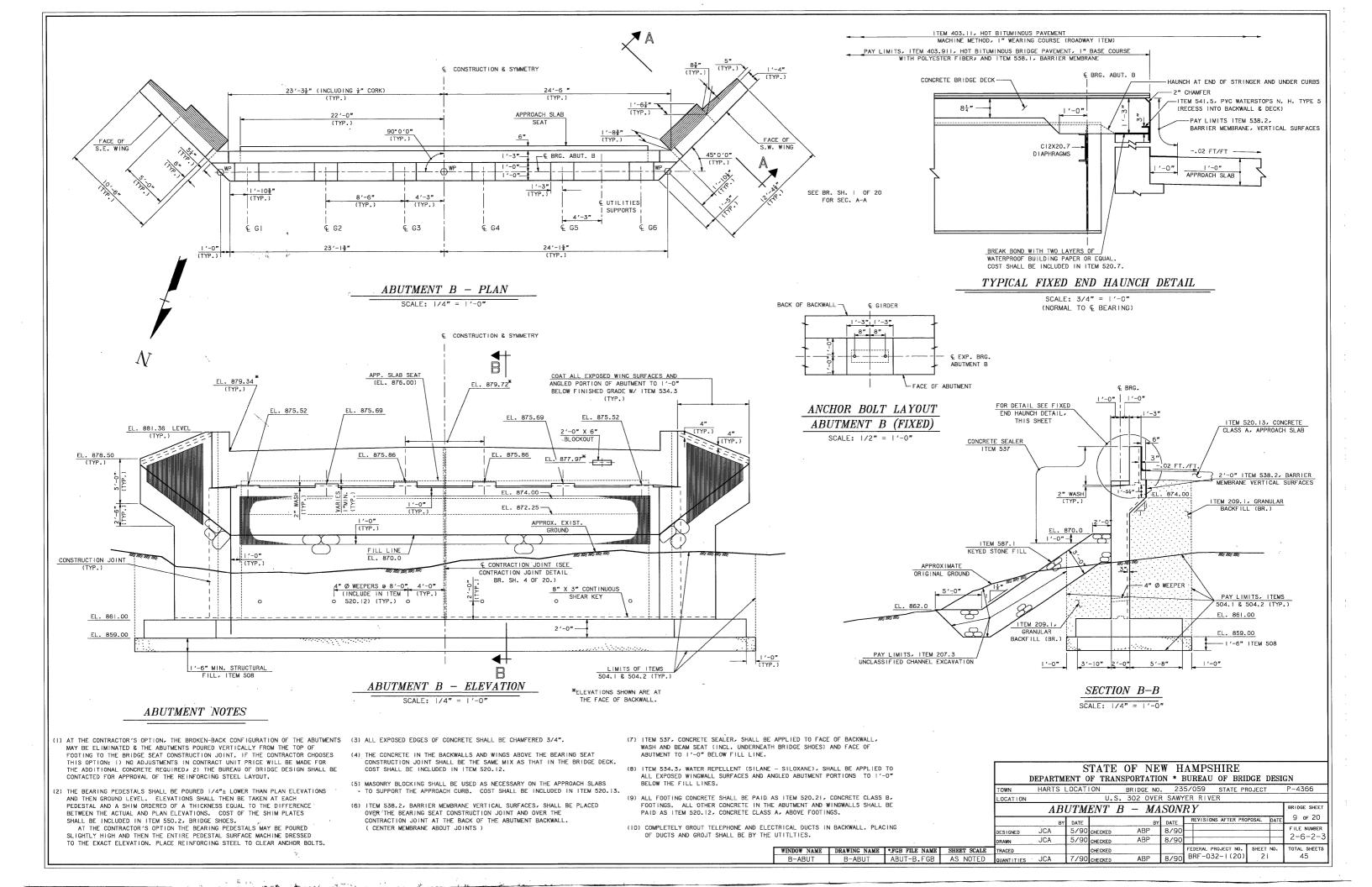


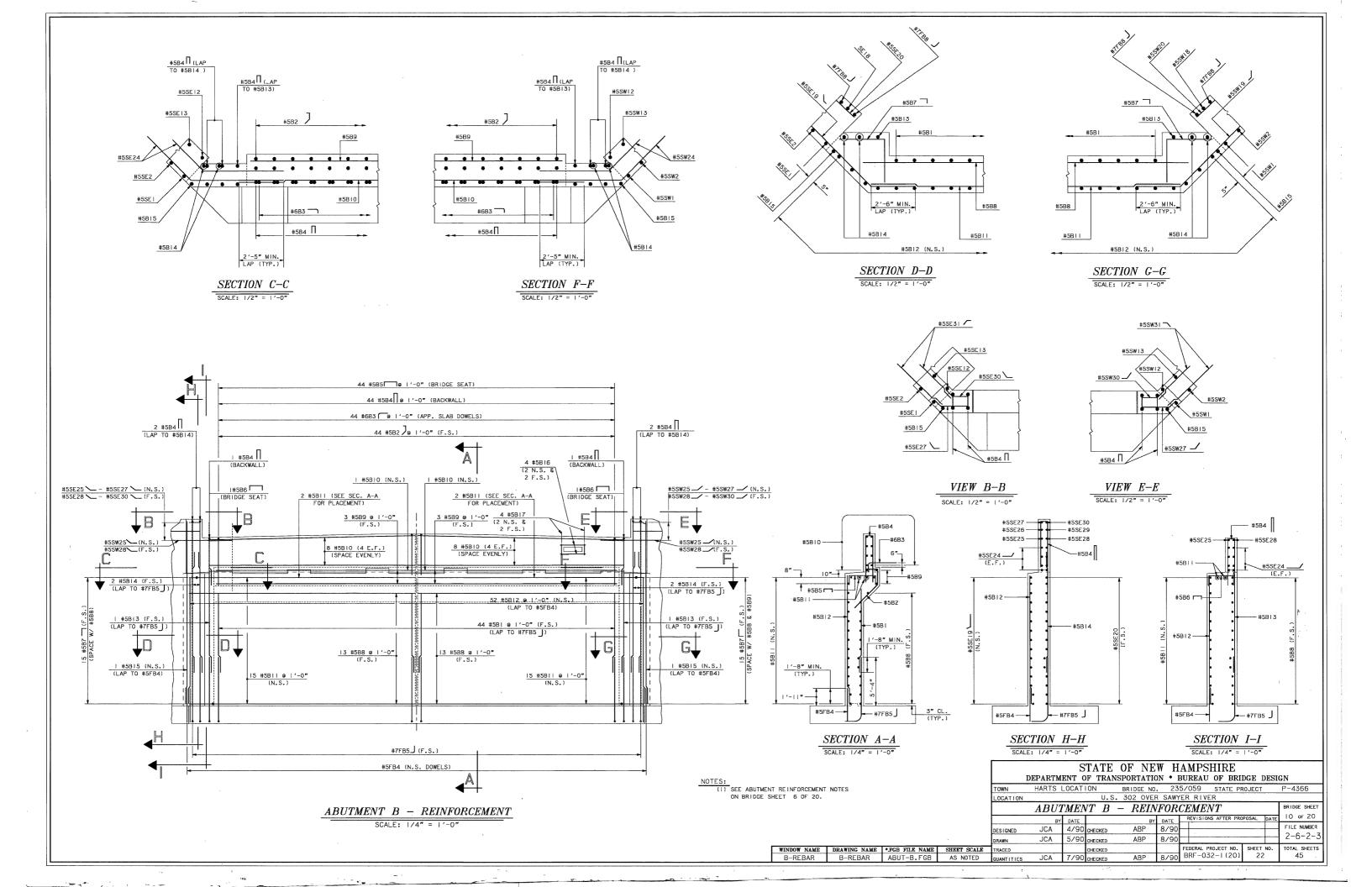


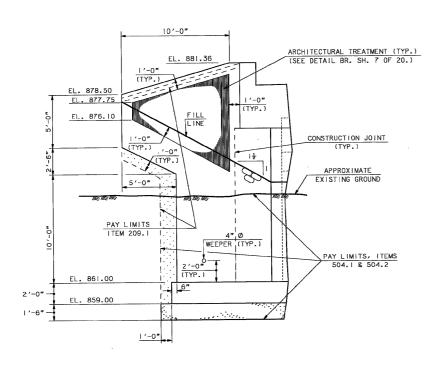










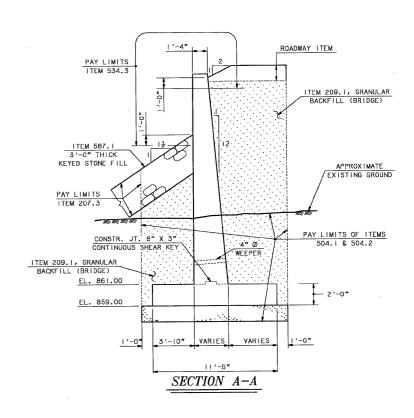


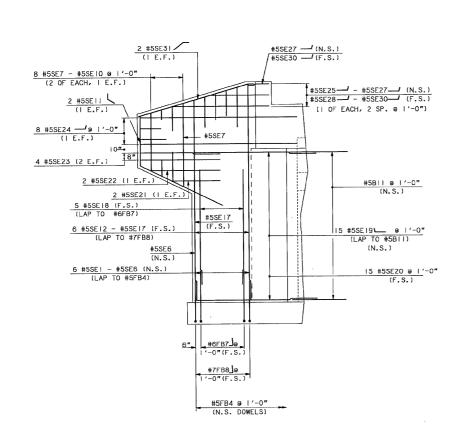
SOUTHEAST WING - ELEVATION

100

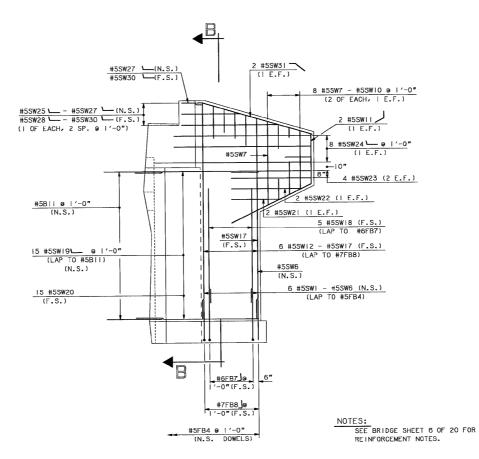
10'-0" EL. 881.36 L. 878.75 . 876.10 5′-0″ APPROXIMATE

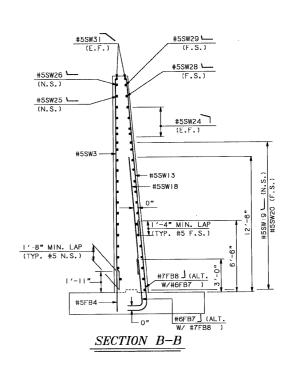
EXISTING GROUND PAY LIMITS PAY LIMITS, ITEMS EL. 861.00 6" EL. 859.00 1'-0" SOUTHWEST WING - ELEVATION





SOUTHEAST WING - REINFORCEMENT

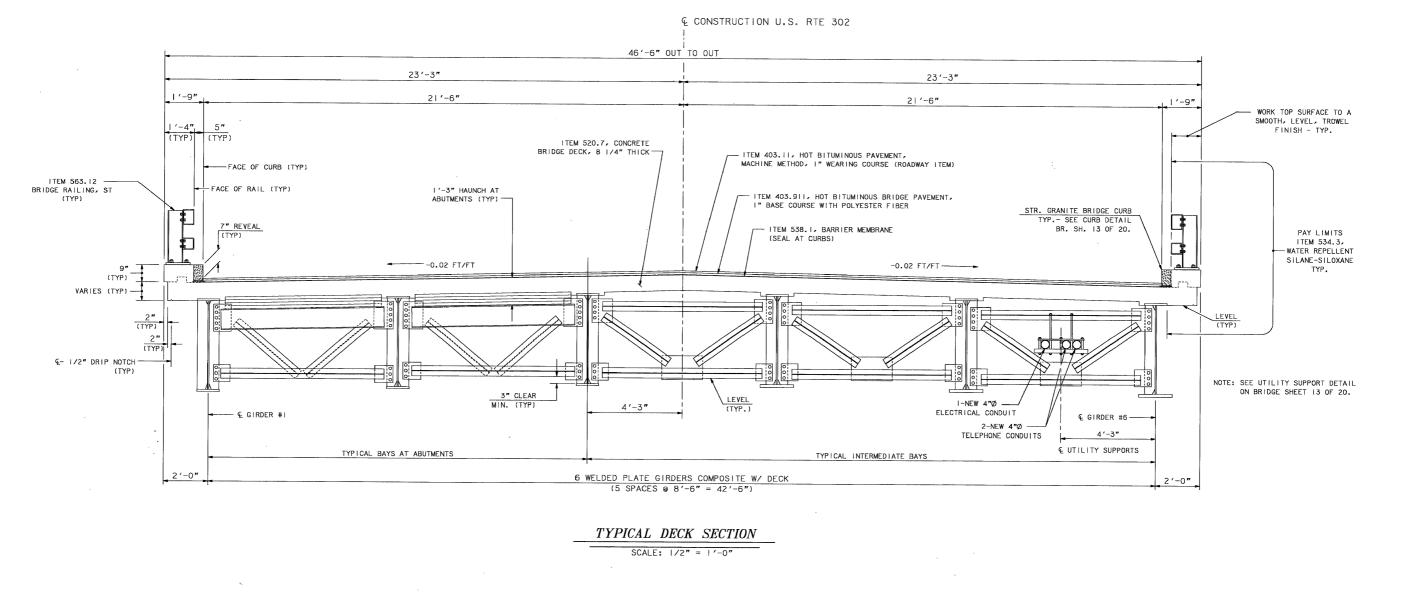


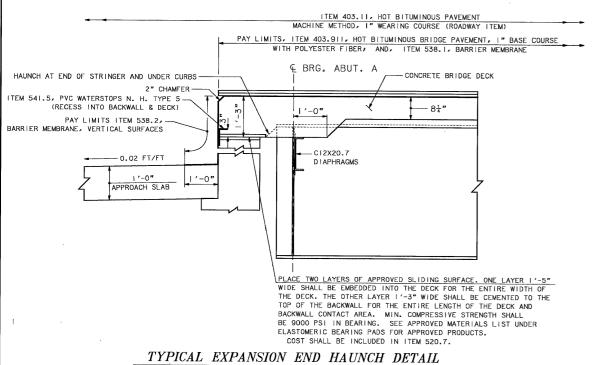


SOUTHWEST WING - RE

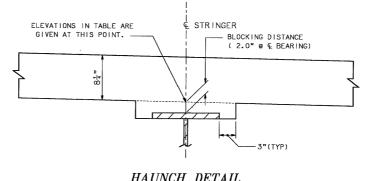
					TOWN ·	HARTS	LOCAT	ON	BRIDGE NO.	23	5/059 s	TATE PE	ROJECT	P-4366
					LOCATION			U.S.	302 OVEF	R SAWY	ER RIVER			
						A	BUT	MENT	B - V	VING	WALLS			BRIDGE SHEET
	TOD COLUMN	T.				BY	DATE		BY	DATE	REVISIONS A	FTER PRO	POSAL DATE	
EINE	FORCEMEN'	<u>l'</u>			DESTGNED	JCA	5/90	CHECKED	ABP	8/90	 			FILE NUMBER 2-6-2-3
					DRAWN	JCA	5/90	CHECKED	ABP	8/90				
. 1	WINDOW NAME	DRAWING NAME	*.FGB FILE NAME	SHEET SCALE	TRACED			CHECKED			FEDERAL PROJ		SHEET NO.	TOTAL SHEETS
	B-WINGS	B-WINGS	ABUT-B.FGB	1/4'' = 1'-0''	QUANTITIES	JCA	7/90	CHECKED	ABP	8/90	BRF-032-	1 (20)	23	1 43

STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN





SCALE: 3/4" = 1'-0"(NORMAL TO & BEARING)



NOTE:	:					
	SEE BR.	SH.	13 OF	20 FOR	SUPERSTRUCTURE	>
	NOTES A	ND QU	ANTIT	IES.		-

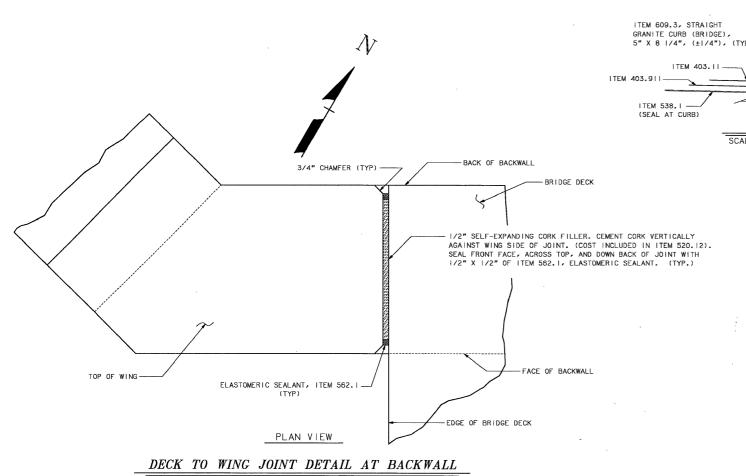
											_
GIRDER	ABUT. A	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	0.6 L	0.7 L	0.8 L	0.9 L	ABUT, E
#1	881.68	881.59	881.49	881.37	881.23	881.06	880.88	880.67	880.45	880.21	879.95
#2	881.85	881.76	881.66	881.54	881.40	881.23	881.05	880.84	880.62	880.38	880.12
#3	882.02	881.93	881.83	881.71	881.57	881.40	881.22	881.01	880.79	880.55	880.29
#4	882.02	881.93	881.83	881.71	881.57	881.40	881.22	881.01	880.79	880.55	880.29
#5	881.85	881.76	881.66	881.54	881.40	881.23	881.05	880.84	880.62	880.38	880.12
#6	881.68	881.59	881.49	881.37	881.23	881.06	880.88	880.67	880.45	880.21	879.95

ELEVATIONS AT BOTTOM OF CONCRETE DECK SLAB

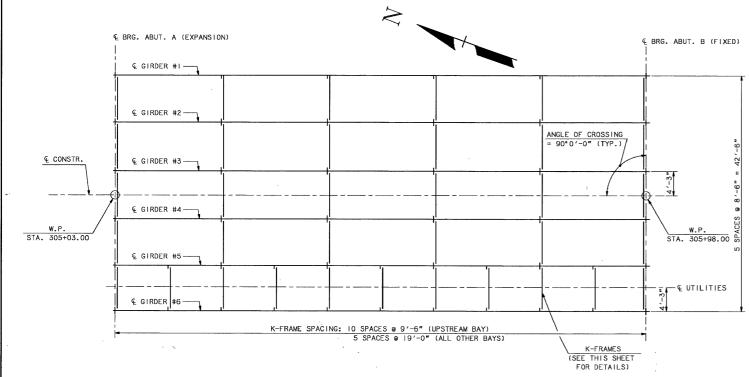
DECK ELEVATION NOTES

- (1) AFTER THE STRUCTURAL STEEL IS ERECTED BUT BEFORE THE DECK FORMS ARE BUILT, ELEVATIONS ON THE TOP FLANGE OF THE GIRDERS ARE TO BE OBTAINED AT THE POINTS INDICATED IN THE TABLE. THE DIFFERENCE BETWEEN THE ELEVATIONS OBTAINED AND THOSE SHOWN IN THE TABLE IS THE ACTUAL BLOCKING DISTANCE FROM THE TOP \P OF THE GIRDER TO THE BOTTOM OF THE DECK AT THE & OF THE GIRDER. SEE ELEVATION TABLE AND HAUNCH DETAIL ON THIS SHEET.
- (2) ELEVATIONS SHOWN IN THE TABLE ARE BOTTOM OF SLAB ELEVATIONS ADJUSTED FOR TOTAL DEAD LOAD DEFLECTION, WITH ALLOWANCE FOR DEFLECTION DUE TO GIRDER WEIGHT.

				2		EPARTM					AMPSHIRE BUREAU OF BRI	DGE DESI	GN
	275				TOWN	HARTS I	LOCAT	ION .	BRIDGE NO	. 23	5/059 STATE PI	ROJECT,	P-4366
N	OTE: SEE RR SH	13 OF 20 FOR 1	SUPERSTRUCTURE		LOCATION			U.S.	. 302 OVE	R SAWY	ER RIVER		
	NOTES AND C		301 ENSTRUCTURE	,			DEC	K SEC	TION &	DE	TAILS		BRIDGE SHEET
						BY	DATE		BY	DATE	REVISIONS AFTER PRO	POSAL DATE	12 of 20
					DESIGNED	JCA	5/90	CHECKED	ABP	6/90			FILE NUMBER
					DRAWN	JCA -	5/90	CHECKED	ABP	6/90			2-6-2-3
Γ	WINDOW NAME	DRAWING NAME	*.FGB FILE NAME	SHEET SCALE	TRACED			CHECKED			FEDERAL PROJECT NO.		TOTAL SHEETS
┙	DECKSECT	DECKSECT	STEEL-SUPER.FGB	AS NOTED	QUANTITIES	JCA	7/90	CHECKED	ABP	8/90	BRF-032-1(20)	24	45



SCALE: 3" = 1'-0"



FRAMING PLAN

SCALE: 1/8" = 1'-0"

ITEM 609.3, STRAIGHT
GRANITE CURB (BRIDGE),
5" X 8 1/4", (±1/4"), (TYP)

ITEM 403.11

ITEM 403.11

ITEM 538.1

(SEAL AT CURB)

CURB DETAIL

SCALE: | 1/2" = 1'-0"

NOTE: CURB ANCHORS SHALL BE 1/4" Ø RODS, TWO PER STONE, STAGGERED IN ADJACENT STONES AND COUNTERSUNK. (COST SHALL BE INCLUDED IN ITEM 609.3)

BACK OF BACKWALL, EXP. ABUTMENT

CURB ANCHOR DETAIL

3/8" GUSSET PLATE (TYP.)

C12 X 20.7 (TYP)
(OPEN DOWNGRADE - TYP.
EXCEPT AT ABUT. B)

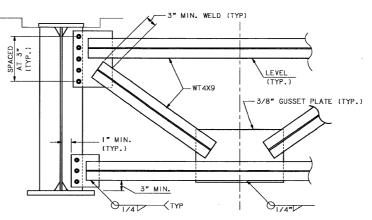
WT4X9

WT4X9

LEVEL
(TYP.)

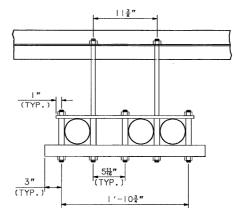
K-FRAME CONNECTION DETAIL

(SECTION @ ABUTMENTS)
SCALE: | " = | '-0"



K-FRAME CONNECTION DETAIL

(SECTION @ INTERMEDIATE SPAN)
SCALE: |" = |'-0"



UTILITY SUPPORT DETAIL

SCALE: | |/2" = |'-0"

WINDOW NAME DRAWING NAME *.FGB FILE NAME SHEET SCALE TRACED CHECKED
DECKFRAM DECKFRAM STEEL-SUPER.FGB AS NOTED QUANTITIES JCA 7/90 CHECKED

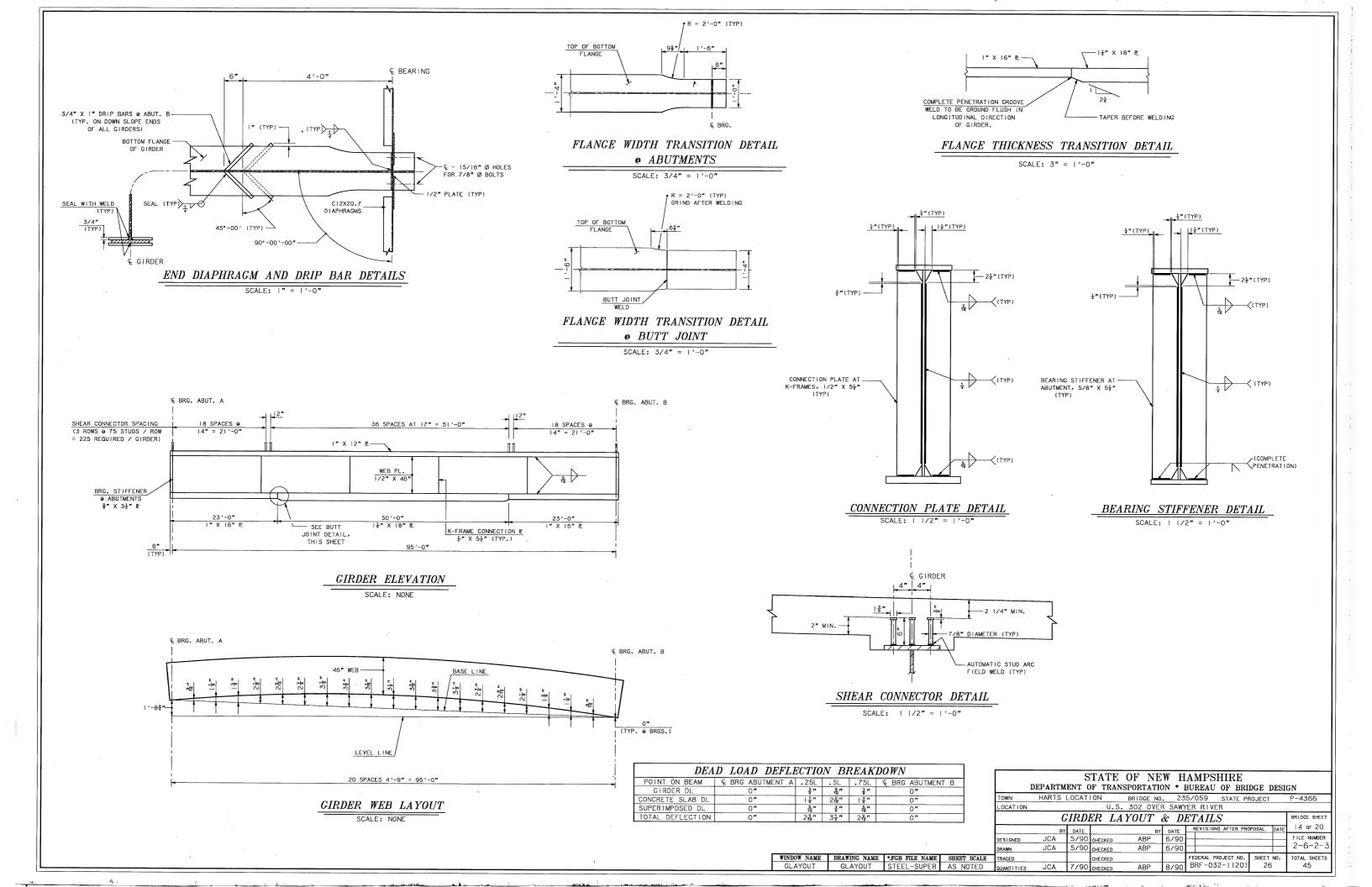
SUPERSTRUCTURE NOTES

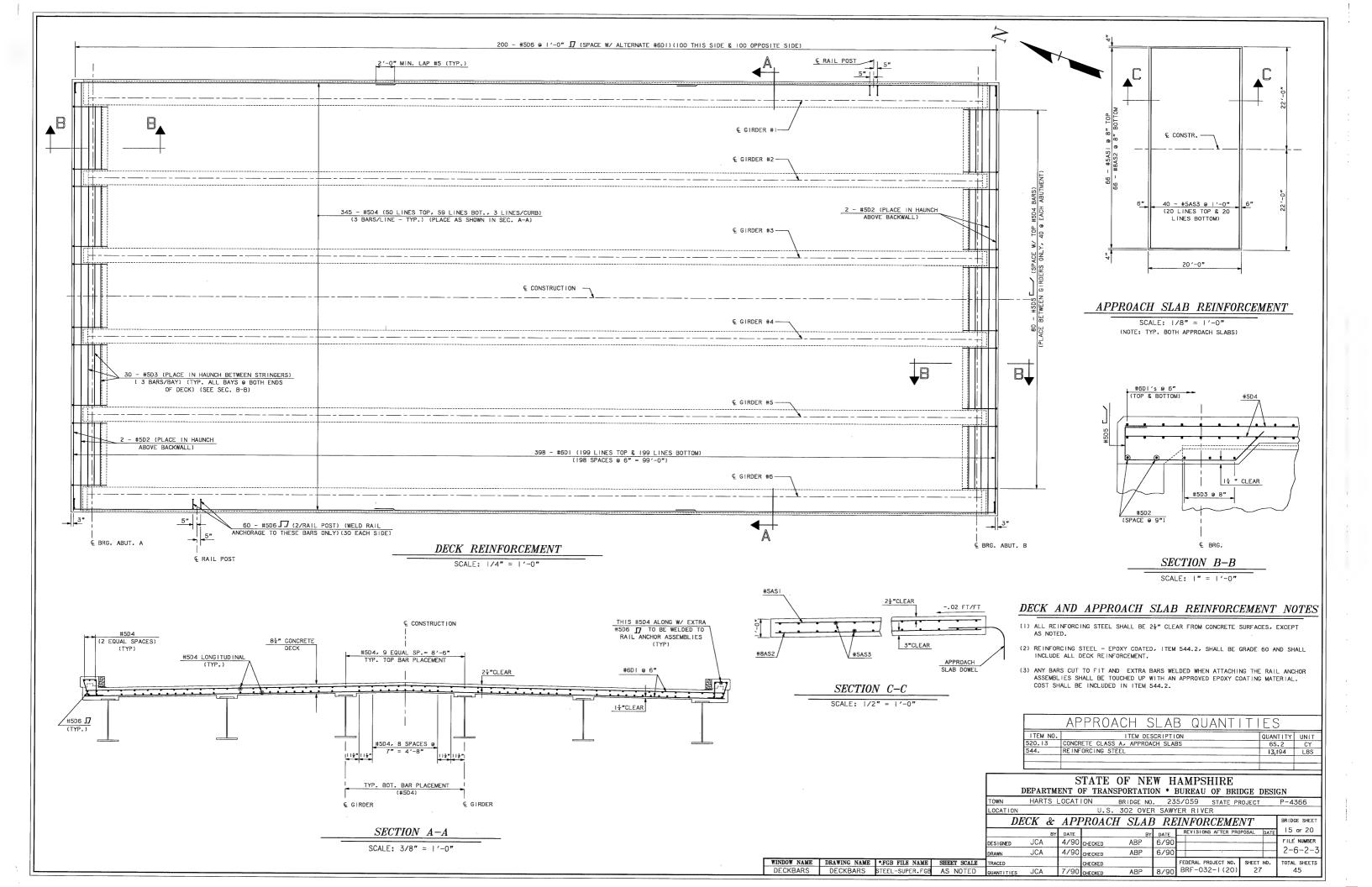
- (1) ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 50W (ASTM A709 GRADE 50W), UNPAINTED. PAY UNDER ITEM 550.1.
- (2) ALL FIELD CONNECTIONS SHALL BE MADE WITH 7/8" Ø HIGH STRENGTH BOLTS (ASTM A325 TYPE 3) IN 15/16" Ø HOLES.
- (3) THE STATE WILL SHOP INSPEST THE FABRICATION OF THE STRUCTURAL STEEL.
- (4) THE NOTCH TOUGHNESS REQUIREMENTS OF NHDOT STANDARD SPECIFICATIONS SHALL APPLY TO THE WEB AND BOTTOM FLANGES OF THE GIRDERS.
- (5) THE STRUCTURAL STEEL FABRICATOR SHALL ARRANGE FOR NON-DESTRUCTIVE TESTING OF WELDS. COST INCLUDED IN ITEM 550.1.
- (6) THE ENDS OF ALL GIRDERS, BEARING STIFFENERS, AND DIAPHRAGMS AT THE € OF ABUTMENTS SHALL BE VERTICAL AFTER FULL DEAD LOAD DEFLECTION.
- (7) ANY SHOP OR FIELD WELDING OF ATTACHMENTS TO GIRDER FLANGES FOR CONSTRUCTION PURPOSES SHALL NOT BE PERMITTED. EXCEPT AS APPROVED BY THE BUREAU OF BRIDGE DESIGN.
- (8) ALL SHEAR CONNECTORS SHALL BE FIELD STUD ARC WELDED TO THE TOP FLANGE.
- (9) GIRDERS SHALL BE CAMBERED FOR FULL DEAD LOAD DEFLECTION. THE CAMBER SHALL BE ACHIEVED BY CUTTING THE WEB PLATE ACCORDING TO THE DIMENSIONS SHOWN ON BRIDGE SHEET 14 OF 20.
- (10) THE GRAVITY AXIS OF K-FRAME MEMBERS SHALL INTERSECT AS NEARLY AS PRACTICABLE AT THE & OF THE GIRDER. K-FRAME MEMBERS SHALL BE SHOP WELDED TO THE GUSSET PLATES.
- (11) THE LOCATION OF WEB AND FLANGE SHOP SPLICES SHALL BE SUBJECT TO THE APPROVAL OF THE BUREAU OF BRIDGE DESIGN. WEB SPLICES SHALL BE AT LEAST I'-O" FROM FLANGE SPLICES AND/OR TRANSVERSE CONNECTION PLATES.
- (12) THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING THE METHOD OF FIELD ERECTION. THESE DRAWINGS SHALL BE APPROVED BEFORE ERECTION STARTS.

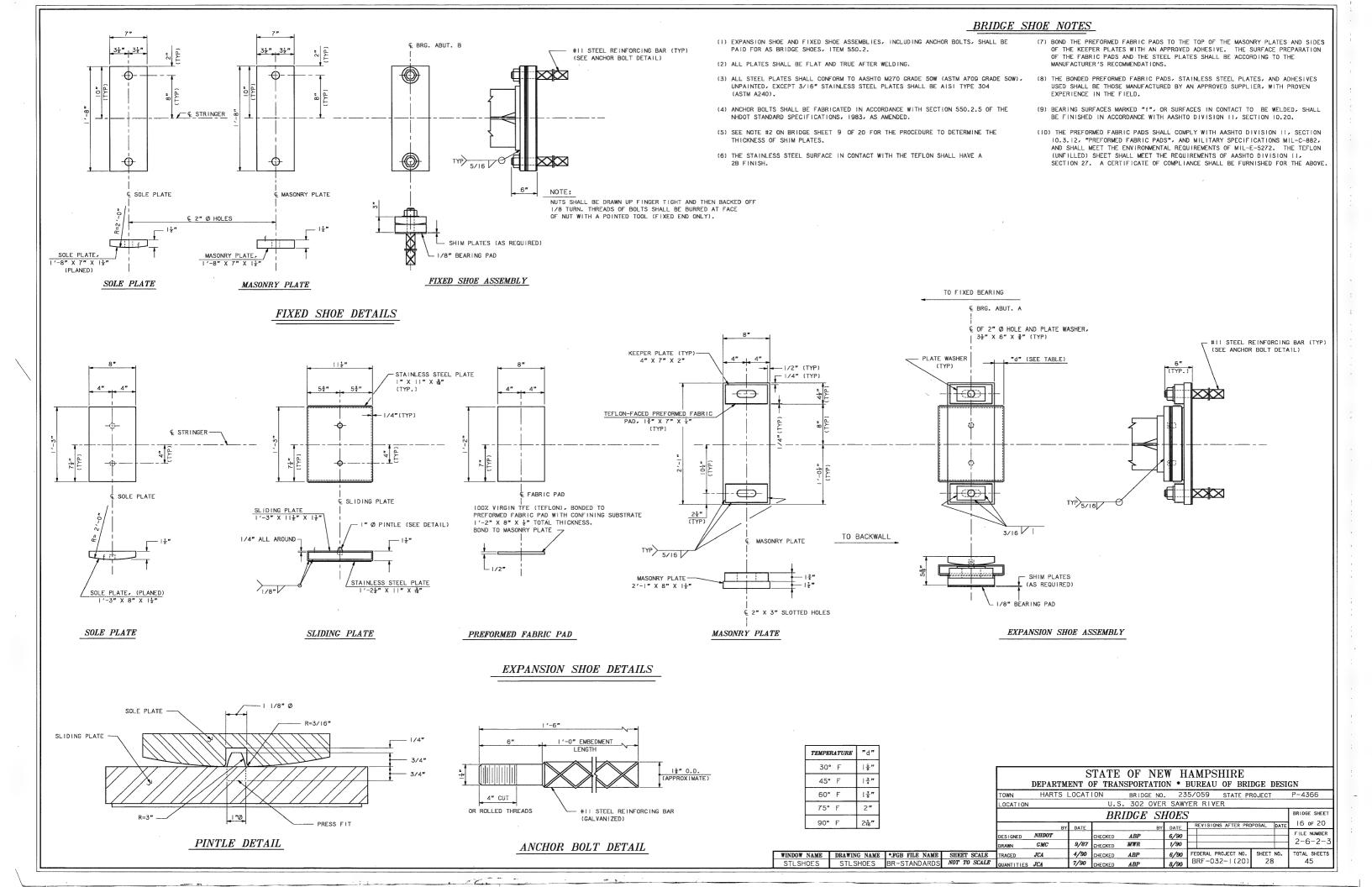
	SUPERSTRUCTURE QUANTIT	IES	
ITEM NO.	ITEM DESCRIPTION	QUANT TY	UNIT
403.911	HOT BITUMINOUS BRIDGE PAVEMENT, I" BASE COURSE		
	WITH POLYESTER FIBER	27	TON
520.7	CONCRETE BRIDGE DECK (EST. 135 CY)	I	Ų
534.3	WATER REPELLENT (SILANE - SILOXANE)	8	GAL
538.I	BARRIER MEMBRANE	476	SY
541.5	PVC WATERSTOPS, NH TYPE 5	93	LF
544.2	REINFORCING STEEL-EPOXY COATED	41,611	LB
547.	SHEAR CONNECTORS (1,350 TOTAL)	ı	U
550.I	STRUCTURAL STEEL (EST. 132,000 LBS.)	I	U
550.2	BRIDGE SHOES	1	U
563.12	BRIDGE RAILING ST	199	LF
609.3	STRAIGHT GRANITE CURB (BRIDGE)	199	LF
562.1	ELASTOMERIC SEALANT	65	CI

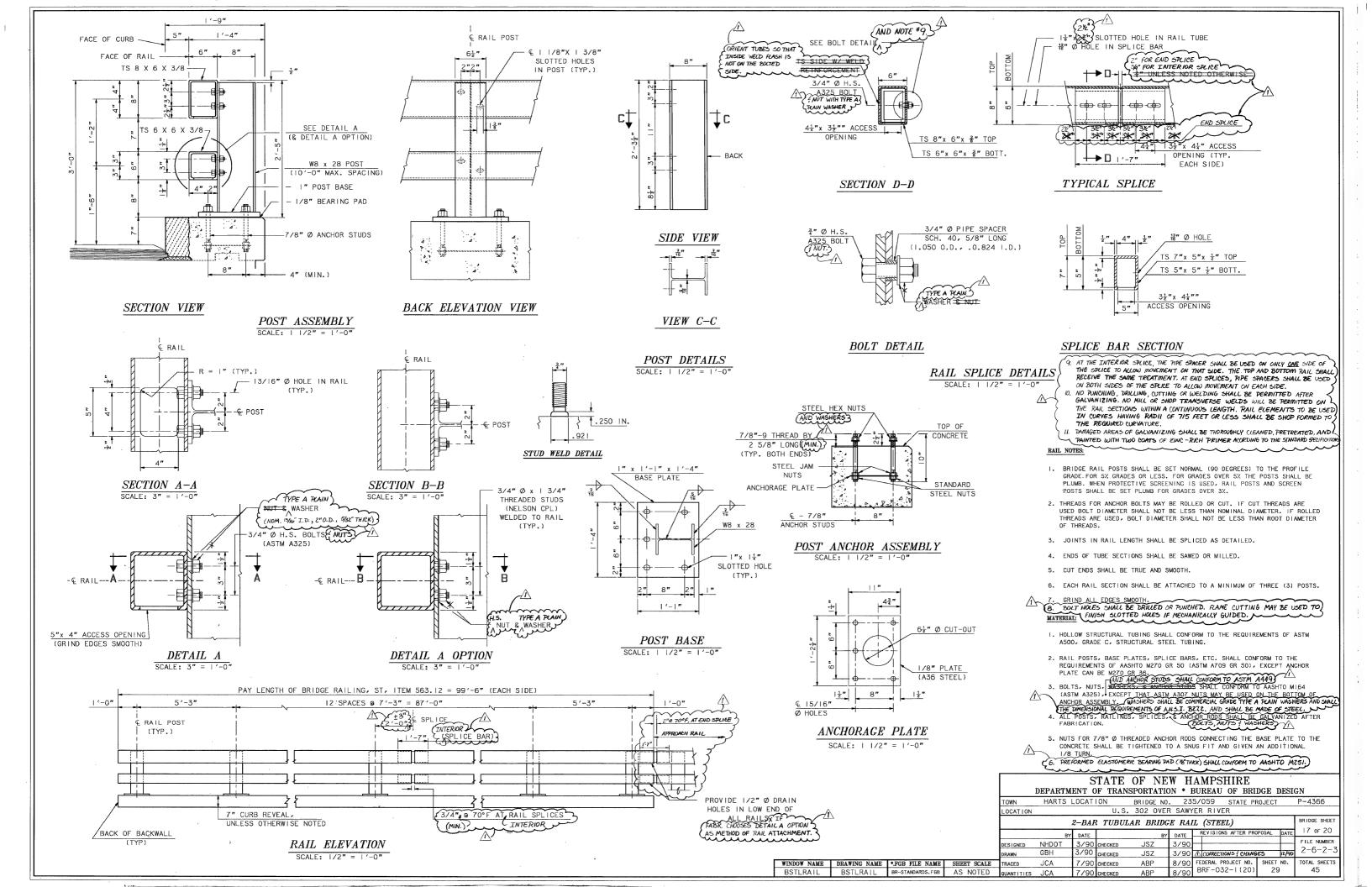
STATE	OF NEW	HAMPSI	HIRE	
DEPARTMENT OF TRANS	SPORTATION	* BUREAU	OF BRIDGE DESI	GN
HARTS LOCATION	BRIDGE NO.	235/059	STATE PROJECT	P-4366
TION U.S.	302 OVER S	AWYER RIVE	R	
FRAMING	PLAN &	DETAIL	S	BRIDGE SHEET

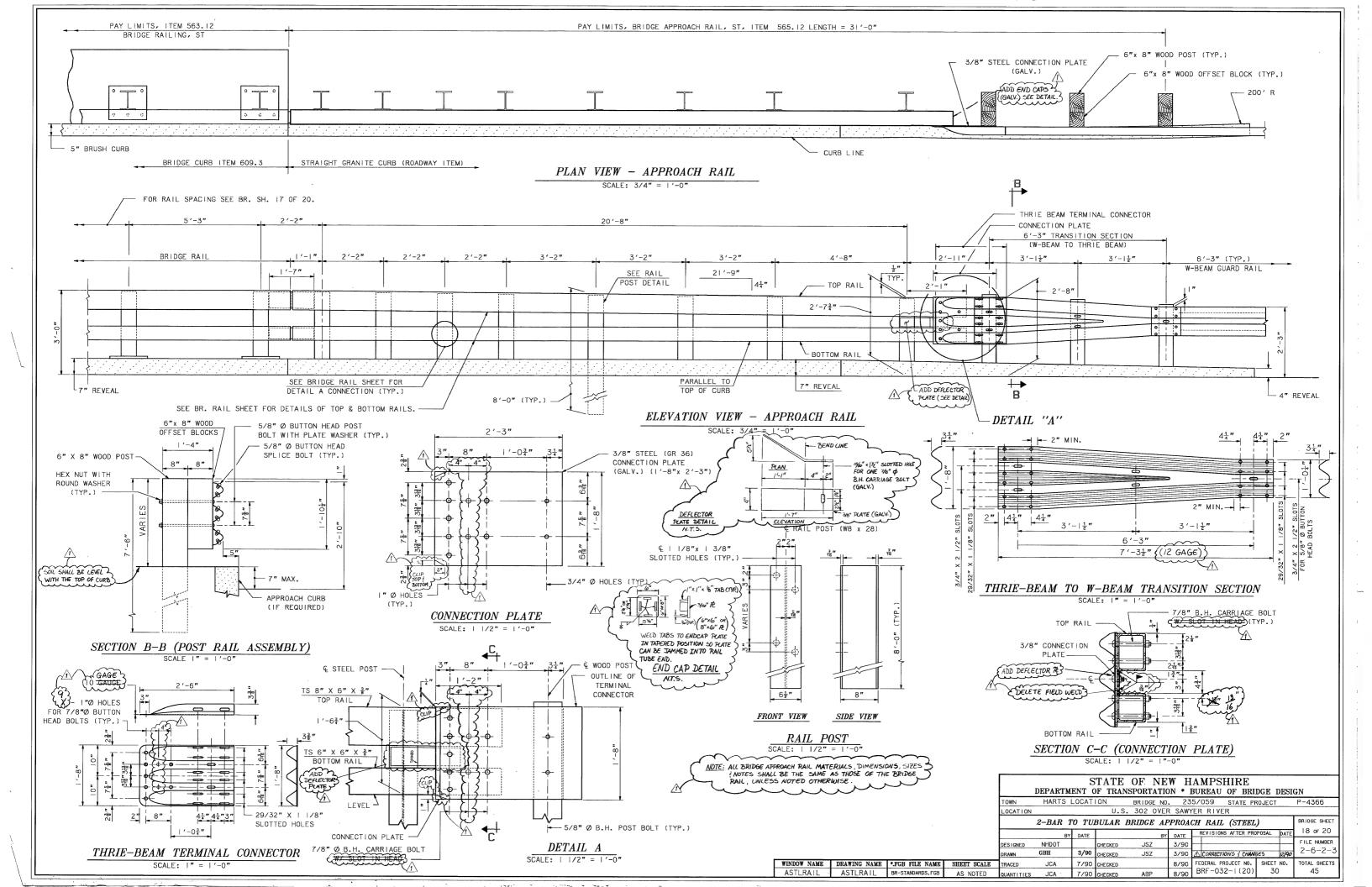
		FRA	MING	PLAN	& L	ETAILS		BRIDGE SHEET
	BY	DATE		BY	DATE	REVISIONS AFTER PRO	OPOSAL DATE	13 of 20
DESIGNED	JCA	3/90	CHECKED	ABP	6/90			FILE NUMBER
DRAWN	JCA	5/90	CHECKED	ABP	6/90			2-6-2-3
TRACED			CHECKED			FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
 ı	10.4	7 (00		400	0 (00	BRF-032-1(20)	25	45

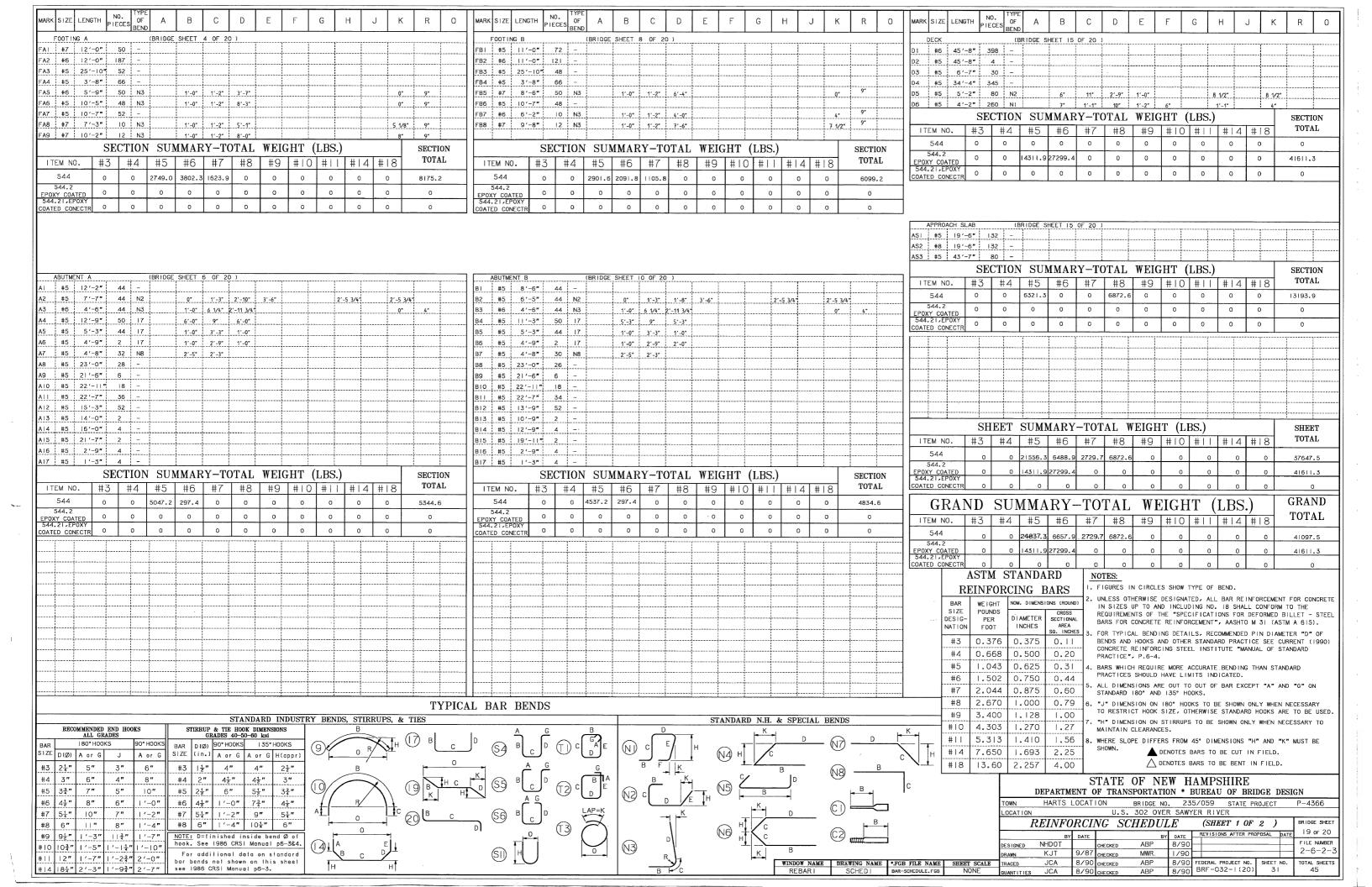












F G H J K R O	MARK SIZE LENGTH NO. 17PE OF A B C	D E F G	H J K R O	MARK SIZE LENGTH NO. TYPE OF A BEND	ВС	D E	F G H	J K R O
	SW WING (BRIDGE SHEET 1 OF 20			BEND	 			
	SWI #5 19'-11" I -						† 	
	SW2 #5 19'-8" I -							
	SW3 #5 9'-5" -							
	SW4 #5 9'-1" -				·		ļ	
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7'-4 1/2" 3'-8 1/4"	SWII #5 12'-11" 2 N7 8'-3"	4′-8"	7'-4 1/2 3'-8 3/4					
	SW12 #5 15'-2" 1 -			. -			ļ	<u> </u>
							 	
				-	-}		· 	
				1	+		 	
	SW17 #5 13'-9" -						ttt	
	SWI8 #5 10'-10" 5 -					 	Ť	
1'-8 1/2' 1'-8 1/2"	SW19 #5 10'-11" 15 N7 2'-5"	8'-6"	1'-8 1/2" 1'-8 1/2"					
	SW20 #5 5'-1" 15 -			1				
	SW21 #5 4'-6" 2 -			 	ļļ.			
	SW22 #5 6'-6" 2 -	 					ļ	
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				1			 	
1'-0"			i ! ! !			 		
8 1/2" 8 1/2"	SW28 #5 8'-6" I N7 1'-0"	7'-6"						
8 1/2" 8 1/2"			1 1 1	 			ļ	
							 	
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0 0 0 0 0	544.21,EP0XY	0 0 0 0	0 0 0	7	<u> </u>		ļ	
				╣			}	
	SE WING (BRIDGE SHEET II OF 20))		- 			 	
		+		1	+		 	
	SE3 #5 19′-5″ 1 -				†		l	
	3E4 ; #5 ; 19 -1 ; 1 ; - ; ;				L			iiii
	SE4 #5 19'-1" - SE5 #5 18'-10" -							
	SE5 #5 18'-10" 1 - SE6 #5 18'-6" 1 -							
	SE5 #5 8'-10" -							
	SE5 #5 18'-10" 1 - SE6 #5 18'-6" 1 - SE7 #5 7'-10" 2 - SE8 #5 7'-0" 2 -							
	SES #5 18'-10" 1 - SE6 #5 18'-6" 1 - SE7 #5 7'-10" 2 - SE8 #5 7'-0" 2 - SE9 #5 6'-4" 2 -							
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3'-2 1/8' 3'-4 1/2' 8 3/4' 8 3/4'	SE5 #5 18'-10" 1 - SE6 #5 18'-6" 1 - SE7 #5 7'-10" 2 - SE8 #5 7'-0" 2 - SE9 #5 6'-4" 2 - SE10 #5 5'-6" 2 - SE11 #5 12'-11" 2 N7 8'-3" SE12 #5 15'-2" 1 - - SE13 #5 14'-11" 1 - - - SE14 #5 14'-4" 1 -	8'-6'	1'-8 1/2' 1'-8 1/2' 3'-2 1/8 3'-2 1/8 3'-2 1/8 1'-0' 1'-0' 1'-0' 1'-0' 8 1/2'	TEM NO. #3 #4 #5 544 0 0 3281. 544.2 EPOXY COATED 0 0 0 0 0 0 0 0 0 0	#6 #7 0 169 0 0 0 STA PARTMENT OF HARTS LOCATION	#8 #9 0 0 0 0 ATE OF TRANSPORT		4
3'-2 1/8' 3'-2 1/8' 3'-2 1/8' 3'-2 1/8' 3'-2 1/8' 3'-2 1/8' 11-0' 11-0' 11-0' 11-0' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 2 1/4' 8 3/4' SECTION	SES	8'-5' 10'-6' 7'-8' 3'-10' 10' 7'-6' 3'-8' 7' 10'-1' VOTAL WEIGHT (LBS.	1'-8 1/2' 1'-8 1/2' 3'-2 1/8 3'-2 1/8 3'-2 1/8 1-0' 1'-0' 1'-0' 1'-0' 8 1/2' 8	TEM NO. #3 #4 #5 544	#6 #7 0 169 0 0 0 0 0 STA PARTMENT OF	#8 #9 0 0 0 0 ATE OF TRANSPORT BRIDGI	0 #10 #11 # 0 0 0 0 0 0 0 0 NEW HAMPSH ATION * BUREAU E NO. 235/059 OVER SAWYER RIVER	4
3'-2 \(\frac{1}{2}\) 3'-2 \(\frac{1}{2}\) 3'-2 \(\frac{1}{2}\) 3'-2 \(\frac{1}{2}\) 3'-2 \(\frac{1}{2}\) 1'-0' 1'-0' 1'-0' 1'-0' 1'-0' 1'-0' 8 \(\frac{1}{2}\) 9 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 8 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 8 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 8 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 8 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 2 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 4 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 4 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 4 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 4 \(\frac{1}{2}\) 5 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 2 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 4 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 4 \(\frac{1}{2}\) 5 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 2 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{	SES #5 18'-10" 1 - SE6 #5 18'-6" 1 - SE7 #5 7'-10" 2 - SE8 #5 7'-0" 2 - SE8 #5 7'-0" 2 - SE9 #5 6'-4" 2 - SE10 #5 5'-6" 2 - SE11 #5 12'-11" 2 N7 8'-3" SE12 #5 15'-2" 1 - SE13 #5 14'-11" 1 - SE14 #5 14'-4" 1 - SE15 #5 14'-4" 1 - SE16 #5 14'-4" 1 - SE16 #5 14'-4" 1 - SE18 #5 10'-10" 5 - SE19 #5 10'-11" 15 N7 2'-5" SE20 #5 5'-1" 15 - SE21 #5 6'-6" 2 - SE22 #5 6'-6" 2 - SE22 #5 6'-6" 2 - SE23 #5 7'-6" 4 - SE24 #5 15'-0" 8 N7 4'-6" SE26 #5 5'-3" 1 N7 4'-6" SE26 #5 5'-3" 1 N7 4'-6" SE27 #5 2'-3" 1 N7 1-5" SE28 #5 12'-2" 1 N7 1-0" SE29 #5 4'-8" 1 N7 1-0" SE30 #5 1'-7" 1 N7 1-0" SE31 #5 10'-10" 2 N7 9° SECTION SUMMARY—T	8'-6' 10'-6- 7'-8' 3'-0' 10' 7'-6- 3'-8' 7' 10'-1' POTAL WEIGHT (LBS.	1'-8 1/2' 1'-8 1/2' 3'-2 1/8 3'-2 1/8 3'-2 1/8 3'-2 1/8 1'-0' 1'-0' 1'-0' 1'-0' 1'-0' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 2 1/4' 8 3/4') SECTION TOTAL	TEM NO. #3 #4 #5 544 0 0 3281.	#6 #7 0 169 0 0 0 STA PARTMENT OF HARTS LOCATION EINFORCING	#8 #9 0 0 0 0 ATE OF TRANSPORT BRIDGI	# O	4
3'-2 1/8' 3'-2 1	SES	8'-6'	1'-8 1/2' 1'-8 1/2' 3'-2 1/8 3'-2 1/8 3'-2 1/8 3'-2 1/8 3'-2 1/8 1'-0' 1'-0' 1'-0' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 1 8	TEM NO. #3 #4 #5 544 0 0 3281.	#6 #7 0 169 0 0 0 STA PARTMENT OF HARTS LOCATION CINFORCING HDOT CHE	#8 #9 0 0 0 0 ATE OF TRANSPORT BRIDGI U.S. 302 C SCHED		4
3'-2 \(\frac{1}{2}\) 3'-2 \(\frac{1}{2}\) 3'-2 \(\frac{1}{2}\) 3'-2 \(\frac{1}{2}\) 3'-2 \(\frac{1}{2}\) 1'-0' 1'-0' 1'-0' 1'-0' 1'-0' 1'-0' 8 \(\frac{1}{2}\) 9 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 8 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 8 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 8 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 8 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 2 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 4 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 4 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 4 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 4 \(\frac{1}{2}\) 5 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 2 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 4 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 4 \(\frac{1}{2}\) 5 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 1 \(\frac{1}{2}\) 2 \(\frac{1}{2}\) 3 \(\frac{1}{2}\) 3 \(\frac{1}{	SES #5 18'-10" 1 - SE6 #5 18'-6" 1 - SE7 #5 7'-10" 2 - SE8 #5 7'-0" 2 - SE8 #5 7'-0" 2 - SE9 #5 6'-4" 2 - SE10 #5 5'-6" 2 - SE11 #5 12'-11" 2 N7 8'-3" SE12 #5 15'-2" 1 - SE13 #5 14'-11" 1 - SE14 #5 14'-4" 1 - SE15 #5 14'-4" 1 - SE16 #5 14'-4" 1 - SE16 #5 14'-4" 1 - SE18 #5 10'-10" 5 - SE19 #5 10'-11" 15 N7 2'-5" SE20 #5 5'-1" 15 - SE21 #5 6'-6" 2 - SE22 #5 6'-6" 2 - SE22 #5 6'-6" 2 - SE23 #5 7'-6" 4 - SE24 #5 15'-0" 8 N7 4'-6" SE26 #5 5'-3" 1 N7 4'-6" SE26 #5 5'-3" 1 N7 4'-6" SE27 #5 2'-3" 1 N7 1-5" SE28 #5 12'-2" 1 N7 1-0" SE29 #5 4'-8" 1 N7 1-0" SE30 #5 1'-7" 1 N7 1-0" SE31 #5 10'-10" 2 N7 9° SECTION SUMMARY—T	8'-6' 10'-6' 3'-8' 3'-6' 3'-8' 7' 10'-1' POTAL WEIGHT (LBS. #8 #9 #10 #1 0 0 0 0	1'-8 1/2' 1'-8 1/2' 3'-2 1/8 3'-2 1/8 3'-2 1/8 3'-2 1/8 3'-2 1/8 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 8 1/2' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 8 1/2' 1 8 1/2	TEM NO. #3 #4 #5 544	#6 #7 0 169 0 0 0 STA PARTMENT OF HARTS LOCATION EINFORCING DOT DATE JT 9/87 CHE	#8 #9 0 0 0 0 ATE OF TRANSPORT BRIDGI U.S. 302 SCHED CKED ABP	# O	4
_	3'-2 1/8' 3'-2 1	SW2 #5 19'-8" 1 -	SWZ 85 19'-8" 1 -	Section Sect	Second S	Second S		

